IBPS SO (Agriculture & IT Officer): Prelims Memory Based Paper (Held on:28 Decmeber 2019) (Previous Year Paper)

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ENGLISH LANGUAGE

Directions

Direction: Read the passage given below and answer the questions that follow:

Entrepreneurship isn't usually worth the risk, some research says, at least strictly in financial terms. Thankfully, plenty of people take the plunge anyway, because they're drawn to it for other reasons, such as wanting to be their own boss, or wanting to pursue a personal passion.

But that conventional view is misleading, argues a recent paper by Gustavo Manso at the University of California, Berkeley. Instead, he finds that self-employment does pay off financially, but not in the way entrepreneurs might expect. The financial benefit doesn't usually come from the entrepreneurship itself, but in the form of higher wages when the entrepreneur returns to the workforce.

Research in this area typically compares salaried workers to those working for themselves; the latter group tends to make less, on average, after controlling for factors like level of education, hence the finding that entrepreneurship isn't worth it financially.

Instead of that approach, Manso looked at workers over a longer time period, capturing the earnings of more than 5,000 American adults between 1979 and 2012. The average annual earnings for a self-employed person in the sample is higher than for a salaried worker, while the median is lower. That squares with previous research, and with intuition: a small number of entrepreneurs will make a lot of money, but the typical entrepreneur will make less than they could at a bigger company.

However, according to Manso's data, most entrepreneurs eventually go back to salaried work; just over half of self-employment _____ last for two years or less.

When Manso looked at lifetime earnings, he found that individuals who had been self-employed at one point in their career fared better, when compared to similar workers who hadn't. "Individuals who attempt to be employees but abandon entrepreneurship in less than two years are not punished, achieving approximately the same earnings as similar individuals who have not attempted to be entrepreneurs," he reports in the paper. "At the same time, entrepreneurs who stay longer than two years, make substantially more than similar salaried workers."

"Overall," he concludes, "I find that entrepreneurs earn approximately 10% more than salaried workers with similar characteristics."

Manso's theory of why people might try entrepreneurship and then head back to the labor market just a year or two later hinges on experimentation. Stepping away from a job to start a company offers a chance to experiment with a new idea, and to see if it works or not. If the idea works, the entrepreneur stays self-employed; if the idea doesn't work, they get another job.

The data can't explain why that next job pays as much or more than the entrepreneur would have made if they'd never been self-employed. "It seems that the labor market values the experience [of being] self-employed," said Manso by email. "Maybe the skills developed during [a] self-employment spell are useful as [a] salaried worker."

Q1. Which of the following statements can be inferred from the passage ?

- **(a)** Entrepreneurship is not at all worth the risk.
- **(b)** Entrepreneurs have a higher chance of earning as much or more than salaried workers when they go back to the workplace.
- **(c)** The labor market does not encourage those entrepreneurs who have failed in their ideas.
- **(d)** People should first do a salaried job and then move on to entrepreneurship.
- **(e)** Both 1 and 2

Q2. According to the author, how can entrepreneurship pay off in financial terms ?

(a) When the entrepreneurs are just driven only by the ideas of being their own boss and by their personal passion.
(b) When the entrepreneurs persevere and stay longer than two years working on their ideas.
(c) When the skills developed during self-employment give more monetary advantage on returning to the workforce.
(d) Entrepreneurs who fail in their ideas are not able to earn more than the salaried workers with similar characteristics.
(e) Both 2 and 3

Q3. Which of the following are not concluded by Manso's findings ?

(a) Entrepreneurs earn approximately 10% more than salaried workers with similar characteristics.
(b) Individuals who have been self-employed at one point in their career fare worse, when compared to similar workers who haven't.
(c) Entrepreneurship isn't usually worth the risk in financial terms.
(d) It can be explained clearly that entrepreneurs earn less in their next job.
(e) Both 2 and 4.

Q4. Which of the following can be a suitable title for the passage ?

(a) Advantages of Entrepreneurship.
(b) Entrepreneurship - The new outlook.
(c) Entrepreneurship and financial stabiity.
(d) Risks of Entrepreneurship.
(e) A job is better than Entrepreneurship.

Q5. What does the author mean when he says, "Thankfully, plenty of people take the plunge anyway" ?

(a) The author is thankful that people give first priority to a salaried job.
(b) Plenty of people know the financial risks of entrepreneurship.
(c) Plenty of people follows entrepreneurship as it gives the highest salaries much more than salaried jobs.
(d) Though entrepreneurship is risky financially, there are people who follow their passions.
(e) None of these.

Q6. In the given passage, four words printed in bold type are given. One of these words printed in bold might either be wrongly spelt or inappropriate in the context of the sentence. Find out that word and mark it as your answer.

(a) Approach
(b) Financial
(c) Experiment
(d) Employees
(e) Entrepreneurship

Q7. Which of the following words is opposite in meaning to 'Pursue'?

(a) Circumvent
(b) Linger
(c) Withhold
(d) Avoid
(e) Both 1 and 4

Q8. Which of the following is the correct meaning of the emboldened word or phrase in the given sentence?

Manso's theory of why people might try entrepreneurship and then head back to the labor market just a year or two later hinges on experimentation.

(a) Depends on
(b) Works on
(c) Thrives on
(d) Breaks down
(e) None of the above

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Q9. Fill in the blank with the most appropriate word.

"Just over half of self-employment _____ last for two years or less."

(a) Situations
(b) journey
(c) Stunt
(d) Stints
(e) None of the above

Q10. Which of the following words is the closest in meaning to ‘conventional’?

(a) Symmetrical
(b) Atypical
(c) Traditional
(d) Imaginative
(e) None of the above

Directions

Direction: Read the passage given below and answer the questions that follow:

Retaining employees has become the most crucial challenge for companies in the information technology sector. With attrition rate in double digits, it is becoming tough for them to make employees stay for a longer period. The industry seems to be facing this problem mainly with junior employees. The reasons range from higher studies to better opportunities, which usually come with more money. The anchor for staying in a company for a longer period would be based on factors like the role, growth, job satisfaction, work environment and not just money.

Talent retention is crucial to delivery and client _____, and there is a lot of focused effort that goes on to retain talent. Periodic talent review and planning process helps a company to identify the high potential talent pool. Retention efforts are around creating a visibility and exposure map for the top talent, providing them with ‘bubble' assignments, accelerated growth opportunities and differentiated rewards.

Contrary to the widely held belief, compensation is not the only way for a company to make its employees feel valuable and wanted. A singular focus on compensation to attract and retain talent is inappropriate because it comes with limited shelf-life and feasibility.

Cognizant, says Srinivasan, believes in empowering people. It has created an entrepreneurial culture that encourages responsibility, commitment, sharing and excellence across all layers and gives associates a free hand to push the ‘limits of imagination' in doing what they think is right for the customer and for the company.

“We need to give employees the right tools to replicate their digital lives in the workplace to engage them better, improve our overall performance and in turn, enhance the quality of service we offer to our clients,” he said. One example of this is Cognizant 2.0, which is a Web 2.0-based platform serving as a virtual town square for over 140,000 Cognizant associates and over 100,000 active users who share knowledge such as best practices, process guidance and technological artefacts across the company's global delivery network and collaborate on hundreds of projects worldwide.

Cognizant's attrition, including both voluntary and involuntary, and all its businesses like BPO was 10.6 per cent for the first quarter 2012. It has been hovering around the 10 percent mark for the past two quarters. Attrition is mostly at the junior levels. The primary reason for attrition is higher education, according to Srinivasan.

E. Balaji, CEO, Randstad India, a recruitment company, agrees that compensation was not a major factor in retaining employees. "It all depends on the age group as sizeable people leave due to higher studies. The 1-3-year-olds in the company have aspirations and a few of the women get married and relocate to other places. A company also loses people due to personal factors," he said.

HCL Technologies follow the practice (A) of ‘Employees First' as the company believed (B) that retaining talent should be a constantly evolving procedure(C). "In today's aggressive business environment where customers have a lot of options to choose from, what distinguishes a company is the innovation and service delivery," says Naveen Narayanan, Global Head, Talent Acquisition, HCL Technologies. Innovation is the key to success and therefore companies are more dependent on their talent to distinguish themselves from the competitors, he adds.

Q11. What can be the most suited title for the given passage?

(a) How to control talent attrition.
(b) Causes of talent attrition.
(c) Importance of talent retention.
(d) Talent retention - A very crucial challenge for corporate world.
(e) None of the above.

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Q12. Which of the following information can be inferred from the passage?

(a) The innovation and service delivery is the factor that makes a company different from others.
(b) Attrition can not be controlled by compensation.
(c) Attrition is only at the junior levels.
(d) Talent acquisition is one of the most crucial challenge for companies.
(e) Both 1 & 4

Q13. Which of the following is most similar to the word 'cognizant' ?

(a) Insensible
(b) Oblivious
(c) Unwitting
(d) Conscious
(e) None of the above

Q14. Which of the following can be filled in the blank to make the sentence contextually correct?

Talent retention is crucial to delivery and client _____, and there is a lot of focused effort that goes on to retain talent.

(a) Belief
(b) Satisfaction
(c) Distraction
(d) Absence
(e) Admiration

Q15. Which of the following is most opposite in meaning to the word 'attrition'?

(a) Corrosion
(b) Waste
(c) Buildup
(d) Reduction
(e) None of the above

Q16. What is the most suitable reason of the fact "Attrition is mostly at the junior levels." ?

(a) Higher education
(b) Higher aspirations
(c) Getting married
(d) Some other personal factors
(e) All of the above

Q17. The following sentence has been divided into sections out of which one section may be grammatically incorrect. Find out the section that has the error and mark it as your answer.

HCL Technologies follow the practice (A) of ‘Employees First' as the company believed (B) that retaining talent should be a constantly evolving procedure(C).

(a) Only A
(b) Only B
(c) Only C
(d) Both A & B
(e) No error.

Q18. Which of the following words can replace the group of words given below?

"A usually simple object (such as a tool or ornament) showing human workmanship or modification as distinguished from a natural object."

(a) Innovation
(b) Artefacts
(c) Replicate
(d) Voluntary

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(e) Acquisition

Q19. What conclusions can we draw from the passage?

(a) Young generation is running only after money.
(b) Talent retention is important because innovation is key to success.
(c) Talent attrition is equal in all age groups.
(d) Compensation is not the only factor to retain the talent.
(e) Both 2 & 4

Q20. What is the tone of the passage?

(a) Apologetic
(b) Populist
(c) Commiserating
(d) Cynical
(e) Biased

Q21. In the following question, a word has been given. Choose the sentence(s) in which it is used correctly and if all the sentences are correct, then choose Option 5.

Hoard

(A) A hoard of fans surrounded him as soon as he moved out.

(B) We have acquired a hoard of information about his work.

(C) He had a hoard of antiques stored in his basement.

(a) Only A
(b) Only B
(c) Only C
(d) Both B and C
(e) All are correct

Q22. Below a word is given followed by three sentences which consist of that word. Identify the sentence/s which best expresses the meaning of the word. Choose option 5 (None of these) if the word is not suitable in any of the sentences.

BUCKLE

A. The smooth polyamide provides an athletic-looking fit and there's a cool buckle detail at the waist to complete this great trunk.

B. Her hands were shaking and her knees wanted to buckle.

C. The general average yields of the corn crops are not comparable one with the other, because they are given by measure and not by weight, whereas the weight per buckle varies considerably.

(a) Only B
(b) Only A
(c) Both A and B
(d) Both B and C
(e) None of these

Q23. Below a word is given followed by three sentences which consist of that word. Identify the sentence/s which best expresses the meaning of the word. Choose option 5 (None of these) if the word is not suitable in any of the sentences.

BAIT

A. He did indeed preach righteousness and judgment to come: but this was merely a bait for the unwary.

B. The only bait he could find was a bright red blossom from a flower; but he knew fishes are easy to fool if anything bright attracts their attention, so he decided to try the blossom.

C. It is a safe bait that no one has ever asked that question before, and yet this system is designed to answer it.

(a) Both A and C
(b) Both B and C
(c) Both A and B

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(d) All A, B and C
(e) None of these

Q24. In the following question, a word has been given. Choose the sentence(s) in which it is used correctly and if all the sentences are correct, then choose Option 5.

Current

(A) Currents are dried grapes.

(B) This fashion is current nowadays.

(C) The current of this river is very strong.

(a) Only A
(b) Only B
(c) Only C
(d) Both B and C
(e) All are correct

Q25. Below a word is given followed by three sentences which consist of that word. Identify the sentence/s which best expresses the meaning of the word. Choose option 5 (None of these) if the word is not suitable in any of the sentences.

TEAM

A. We have a team of eight working on product development.

B. The rain was teaming down.

C. You can team up with one other class member if you want

(a) Only B
(b) Only A
(c) Both A and C
(d) Both B and C
(e) None of these

Directions

Direction: In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Wild numbers of the vulnerable Hippopotamus amphibious are (1) _____ because of habitat loss and hunting for meat and ivory, so monitoring their population is (2) _____ for conservation management. (3) _____ methods of counting hippos include unreliable aerial surveys and hazardous land and water surveys, and ground-based observations are (4)_____ for surveyors because the hippo is one of the most dangerous animals in Africa and lives in (5)_____ areas. Furthermore, hippos also prefer an aquatic lifestyle and regularly submerge themselves in water, further complicating efforts to keep an (6)_____ on their population. These challenges (7)_____ UNSW researchers, in collaboration with conservation organization: Elephants Without Borders, to take to the skies with drones to film hippo pods and thus, more accurately estimate hippo numbers. The researchers eventually found the drone method just as effective as land surveys in estimating hippo numbers.

Q26. Which of these should be filled at (1) as per the context of the passage?

(a) Declining
(b) Increasing
(c) Demonstrating
(d) Devastating
(e) Exasperating

Q27. Which of these should be filled at (2) as per the context of the passage?

(a) Banal
(b) Crucial
(c) Efficient
(d) Radical
(e) Rational

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Q28. Which of these should be filled at (3) as per the context of the passage?

(a) Leading
(b) Important
(c) Scientific
(d) Advanced
(e) Traditional

Q29. Which of these should be filled at (4) as per the context of the passage?

(a) Easy
(b) Unsafe
(c) Safe
(d) Haunting
(e) Interesting

Q30. Which of these should be filled at (5) as per the context of the passage?

(a) Accessible
(b) Exposed
(c) Affordable
(d) Inaccessible
(e) Popular

Q31. Which of these should be filled at (6) as per the context of the passage?

(a) Head
(b) Ear
(c) Eye
(d) Importance
(e) Track

Q32. Which of these should be filled at (7) as per the context of the passage?

(a) Annoyed
(b) Inspired
(c) Threatened
(d) Cheered
(e) Demotivated

Q33. In the question below, three statements are given which may or may not be grammatically correct. Identify the statement/statements that is/are incorrect.

A) The number of automobiles plying on Indian roads in the 1980s increased by a staggering 400% over the previous decade.

B) This steady decline must have had an adverse impact on employment and poverty reduction.

C) A group of bureaucrat and scientists sat down to ponder the future of technology in the country. The irony of analyzing technologies that would unshackle the Indian economy.

(a) A and B
(b) Only C
(c) Only A
(d) A and C
(e) No error

Q34. In the question below, three statements are given which may or may not be grammatically correct. Identify the statement/statements that is/are incorrect.

I.No sooner did I speak, than he left.

II. The patient was accompanied with his friend.

III.Mr. Sharma may be late but I am sure Mr. Kapoor won't be.

(a) Only I

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(b) Only II
(c) Only III
(d) Only I and II
(e) Only II and III

Q35. In the question below, three statements are given which may or may not be grammatically correct. Identify the statement/statements that is/are incorrect.

I. John is working very hardly as the examinations are fast approaching.

II. I have seen him a couple of times since May.

III. A short story should not exceed two hundred words.

(a) Only I
(b) Only II
(c) Only III
(d) Only I and II
(e) Only II and III

Q36. In the question below, three statements are given which may or may not be grammatically correct. Identify the statement/statements that is/are incorrect.

I. Young people in Britain eats more snacks than people of the same age in other European countries.

II. He spends a good deal of money on eating out.

III. Without waiting for the instructions from the Government, some cable operators in the city had block the news.

(a) Only I.
(b) Only II.
(c) Only III
(d) Only I and II
(e) Only I and III.

Q37. In the question below, three statements are given which may or may not be grammatically correct. Identify the statement/statements that is/are incorrect.

I. When shall we arrive to our destination?

II. Neither Rohit nor Mohit were there at the restaurant when I went there.

III. Ten kilometres is a long distance to walk.

(a) Only I
(b) Only II
(c) Only III
(d) Only I and II
(e) Only II and III

Q38. Select the phrase/connector from the given options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.

(A) Parents generally try to maximize the welfare of their children.

(B) This is subject to constraints of money and time.

(a) Which
(b) and
(c) How
(d) What
(e) None of the above

Q39. Select the phrase/connector from the given options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.

(A) The lecturer wandered from topic to topic.

(B) We wondered if there was any point to his discursive remarks.

(a) But

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(b) As
(c) While
(d) Both 2 and 3
(e) None of these

Q40. Select the phrase/connector from the given options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.

(A) His story is based on a modicum of truth.

(B) Most of the events he describes are fictitious.

(a) Since
(b) Although
(c) Hence
(d) Because
(e) None of these

Q41. Select the phrase/connector from the given options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.

(A) I didn't want to take a side in the argument.

(B) I put my headphones on and listened to some smooth jazz.

(a) Since
(b) Yet
(c) Although
(d) Nevertheless
(e) None of these

Q42. Select the phrase/connector from the given options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.

(A) Akriti needs to learn Chinese.

(B) I will teach her.

(a) As
(b) Since
(c) However
(d) Both A and B
(e) None of these

Q43. In each question, one sentence is given in which certain words are in bold and numbered from A to E. Below the sentence are given five options with possible pairs of interchange of those bold words. Choose the pair(s) of words which are needed to be interchanged to make the sentence grammatically correct and meaningful.

Radical feminists seek to (A)liberate patriarchy by (B)challenging existing social (C)norms and institutions, and believe that (D)eliminating patriarchy will (E)abolish everyone from an unjust society.

(a) B-D
(b) A-E
(c) C-E
(d) B-C and D-E
(e) A-B and C-D

Q44. In each question, one sentence is given in which certain words are in bold and numbered from A to E. Below the sentence are given five options with possible pairs of interchange of those bold words. Choose the pair(s) of words which are needed to be interchanged to make the sentence grammatically correct and meaningful.

Since the (A)liberalization of the economy occurred under the Narasimha Rao government, even the Congress has (B)fervently itself from the Nehruvian socialist (C)ideology it had so (D)distanced advocated right up until and during Rajiv Gandhi's (E)leadership.

(a) C-E
(b) B-D

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(c) A-C
(d) A-B and C-D
(e) B-E and A-D

Q45. In each question, one sentence is given in which certain words are in bold and numbered from A to E. Below the sentence are given five options with possible pairs of interchange of those bold words. Choose the pair(s) of words which are needed to be interchanged to make the sentence grammatically correct and meaningful.

In 2017, a (A)composition study published in Heritage Science found a (B)connection between the chemical (C)groundbreaking of old books and people's (D)reactions to them, which (E)allowed researchers to create a "historic book odour wheel."

(a) B-D
(b) A-D and B-E
(c) A-C
(d) D-E
(e) B-C and A-E

Q46. In each question, one sentence is given in which certain words are in bold and numbered from A to E. Below the sentence are given five options with possible pairs of interchange of those bold words. Choose the pair(s) of words which are needed to be interchanged to make the sentence grammatically correct and meaningful.

Apple's work on communications satellites and next-generation (A)wireless technology means the (B)aim is likely to beam data to a user's device, potentially (C)dependence the (D)mitigating on wireless carriers, or for linking devices together without a (E)traditional network.

(a) A-C
(b) A-E and B-C
(c) B-D
(d) A-B and C-E
(e) C-D

Q47. In each question, one sentence is given in which certain words are in bold and numbered from A to E. Below the sentence are given five options with possible pairs of interchange of those bold words. Choose the pair(s) of words which are needed to be interchanged to make the sentence grammatically correct and meaningful.

Fascists believe that liberal democracy is (A)totalitarian and regard the complete (B)mobilization of society under a (C)obsolete one-party state as necessary to prepare a nation for armed (D)respond and (E)conflict effectively to economic difficulties.

(a) A-C and D-E
(b) A-B
(c) B-D and C-E
(d) A-D
(e) B-E

Q48. Directions: Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in bold the following sentences to make the sentence grammatically meaningful and correct. If the sentence is correct as it is and there is no correction required mark (e) as the answer.

The runner was called at home plate, and the manager came out to argue about the call.

(a) called in
(b) called out
(c) called away
(d) called on
(e) No improvement

Q49. Directions: Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in bold the following sentences to make the sentence grammatically meaningful and correct. If the sentence is correct as it is and there is no correction required mark (e) as the answer.

She went out with her friends every night instead of studying and threw further her chance of a place at university.

(a) threw away

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(b) threw out
(c) threw off
(d) threw in
(e) No improvement

Q50. Directions: Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in bold the following sentences to make the sentence grammatically meaningful and correct. If the sentence is correct as it is and there is no correction required mark (e) as the answer.

Your grandmother is coming to visit today, so don't forget to hang around your clothes when you tidy your room.

(a) hang on
(b) hang out
(c) hung up
(d) hang up
(e) No improvement

REASONING

Directions

Direction: Read the following information carefully and answer the questions that follow:

Eight people – P, Q, R, S, T, U, V and W are sitting around a square table (not necessarily in the same order) in such a way that four of them who are sitting at the corners of the table facing outside while other four who are sitting in the middle of each of the four sides facing inside. Each of them likes different colors – Red, Yellow, Green, Orange, Blue, White, Pink, and Black. Two people who are facing the same direction (either inside or outside) are not sitting with each other. The one who likes Blue is not facing outside. U is sitting fifth to the left of the one who likes Blue. Only one person is sitting between U and the one who likes orange. P is sitting third to the right of the one who likes orange. Two persons are sitting between P and W. W doesn't like orange. Neither W nor P is an immediate neighbor of Q. The one who likes Yellow is sitting third to the right of Q. R and T are the immediate neighbors. R is not an immediate neighbor of W nor he likes orange. The one who likes White is an immediate neighbor of S. S is sitting third to the left of R. The one who likes Red is sitting second to the left of the one who likes green. R neither likes red nor Black.

Q51. Who among the following likes balck color?

(a) S
(b) V
(c) W
(d) The one who is sitting immediate left of V
(e) The one who is sitting fourth to the right of W

Q52. R likes which color?

(a) White
(b) Red
(c) Pink
(d) Yellow
(e) None of these

Q53. Which of the following statement is not true as per the given information?

(a) T is the facing the one who likes Red color
(b) Q is sitting fifth to the left of the one who likes Blue color
(c) P is an immediate neighbour of R
(d) V is facing to P
(e) The one who likes white color is sitting immediate right of P

Q54. How many people are sitting between R and the one who likes green color, when counted from the right of R?

(a) Two
(b) Three
(c) Four

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(d) Five
(e) Six

Q55. Which of the following combination is correct?

(a) Q, Orange
(b) S, Red
(c) U, White
(d) V, Green
(e) All the above

Q56. In a certain code, STICKER is written as TSJBLDS. How is IMPOSE coded in that code?

(a) JLQNTD
(b) JLQNTB
(c) JLONTD
(d) JLQPYD
(e) JLQMRD

Directions

Direction: Study the information given below carefully and answer the questions that follow.

There are eight members in a family. S is the father of U. Q is the father of A. G is married to S. T is the mother - in - law of G. M is the granddaughter of Q. T has only 2 children. Y is the son in law of Q. U and A are cousins.

Q57. How many male members are there in the family?

(a) 1
(b) 3
(c) 4
(d) 5
(e) Either 3 or 4

Q58. How is U related to T?

(a) Grand daughter
(b) Grandson
(c) Son
(d) Daughter
(e) Cannot be determined

Q59. Who is the wife of Y?

(a) A
(b) U
(c) T
(d) G
(e) S

Directions

Direction: Read the information carefully and answer the question asked below.

Eight persons A, B, C, D, E, F, G and H have to attend a meeting in January, Feb, June and August. All the meetings are in different cities, Mumbai, Hyderabad, Kolkata, Bangalore, Chennai, Delhi, Pune, and Lucknow. In each month the meeting is on either 9th or 18th of the month. Only one person attends the meeting on a given date.

E attends the meeting on 9th of the month which has only 30 days and in Mumbai. Only three people attend the Meeting between E and G. Meeting in Pune is before the Meeting in Bangalore. 2 people attend the Meeting between G and D. D attend meeting in Chennai. There are 3 meetings between the meetings of Chennai and Kolkata. Meeting in Hyderabad is on an even number date. C does not attend the Meeting on 18th of any months and not in the city Lucknow. C and A attend the Meeting in the same month but not in February. H and D attend the Meeting on the same date. There are five meetings between meeting in Bangalore and meeting in Kolkata. H attends the Meeting before D. B does not attend the meeting on even number date.

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Q60. Who attends a meeting on 18 August?

(a) C
(b) D
(c) A
(d) H
(e) G

Q61. How many people have meetings between the meetings of C and the one who has meeting in Pune?

(a) 2
(b) 5
(c) 1
(d) 0
(e) 3

Q62. Four among the five are the same in a certain way and thus form a group, which of the following does not belong to that group?

(a) B, D
(b) C, A
(c) G, H
(d) D, G
(e) E, F

Q63. Who attends meeting in Lucknow?

(a) A
(b) F
(c) D
(d) C
(e) B

Q64. Which of the following combination of Date, Person, and Place is not true?

(a) 18^(th)June, H, Lucknow
(b) 9^(th) January, G, Pune
(c) 18^(th) August, A, Kolkata
(d) 9^(th) June, E, Mumbai
(e) 18^(th) February, D, Chennai

Directions

Direction: Study the following information carefully and answer the questions given below.

The weight of six persons A, B, C, D, E and F is measured. All of them have different weights. D is lighter than only one person. E is heavier than B but lighter than F. A is heavier than F. Person B is not the lightest one. The person which is the third lightest has a weight of 73 kg and the person which is the heaviest is of 96 kg.

Q65. Which of the following is the heaviest one?

(a) A
(b) F
(c) E
(d) C
(e) D

Q66. Who is the second lightest?

(a) A
(b) D
(c) E
(d) B

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(e) F

Q67. What could be the weight of D?

(a) 97 Kg
(b) 85 Kg
(c) 73 Kg
(d) 62 Kg
(e) None of these

Q68. How many pairs of digits in the number 28462742 have as many numbers between them as in the series of natural numbers both in backward and forward directions?

(a) Six
(b) Seven
(c) Five
(d) More than seven
(e) None of these

Directions

Direction: Study the following information carefully and answer the given questions.

In a certain code language,

‘Naina bought dream catcher’ is written as ‘ani rad chr ogt’

‘they bought dream house’ is written as ‘ogt yet rad ose’,

‘everybody have a dream house’ is written as ‘lsn avn voy ose rad’

‘Naina have a clinic ‘ is written as ‘cnc ani lsn avn’.

Q69. What is the code for ‘catcher’ in the given code language?

(a) yet
(b) chr
(c) ogt
(d) ani
(e) rad

Q70. If ‘everybody have dream’ is coded as ‘rad avn voy’, then what does ‘lsn’ mean in the given code language?

(a) a
(b) have
(c) they
(d) clinic
(e) catcher

Q71. Which of the following is the code for ‘Naina’ in the given code language?

(a) cnc
(b) ani
(c) avn
(d) yet
(e) voy

Directions

Direction: Study the information given below carefully and answer the questions that follow.

Maria starts from point A, walks 6 m north and reaches point B. At point B, she turns right and reaches point C after walking 4 m. After reaching point C, she turns right and walks 3 m to reach point D. Further, she walks to point E which is 8 m to the west of point D. She further goes 5 m south to point F, turns left and walks 8 m to reach point G.

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Q72. What is the shortest distance between point E and B?

(a) 4 m
(b) 5 m
(c) 3 m
(d) 6 m
(e) 8 m

Q73. If a person goes 2 m South from point A, what is the distance between the current position of person and point F?

(a) 4 m
(b) 5 m
(c) 3 m
(d) 6 m
(e) 8 m

Q74. What is the direction of Point A with respect to point G?

(a) North
(b) North-West
(c) South-West
(d) North-East
(e) South-East

Q75. In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

I. Only a few apples are good

II. Some apples are not rotten

Conclusions:

I. Some rotten being good is a possibility

II. Some apples are not good

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both the conclusion follows
(d) Neither conclusion I nor II follows
(e) None of the conclusion follows

Q76. In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

I. Only potato is tomato

II. Some pumpkin are potato

Conclusions:

I. Some tomato being pumpkin is a possibility

II. Some pumpkin being potato is a possibility

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both the conclusion follows
(d) Either conclusion I or II follows
(e) None of the conclusion follows

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Q77. In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

I. All homosapiens are brave

II. Only a few homosapiens are crazy

Conclusions:

I. Some homosapiens are not crazy

II. All brave being crazy is a possibility

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both the conclusion follows
(d) Neither conclusion I nor II follows
(e) Either conclusion I or II follows

Q78. In the question below are given three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

I. Some preparation are not good

II. Only a few good are wise

III. No wise is preparation

Conclusions:

I. Some good are not wise is a possibility

II. No preparation is wise

III. Some preparation are good is a possibility

(a) Neither I nor II follows
(b) Only conclusion III follows
(c) All follows
(d) Both conclusion II and III follows
(e) Only II and either I or III follows

Q79. In the question below are given three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

I. Few holders are share

II. Only a few accounts are bank

III. No bank is share

Conclusions:

I. All share can be holders

II. Some bank is not share

III. Some accounts are not bank is a possibility

(a) Only conclusion III follows
(b) Only conclusion I and II follows
(c) Both conclusion I and III follows
(d) Only conclusion II follows
(e) Only conclusion I follows

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Q80. Directions: In the following question assuming the given statements to be true, find which of the conclusion among the given conclusions is/are definitely true and then give your answers accordingly.

Statements:

$K \leq D, H \geq R < P < K$

Conclusions:

I. $R < D$

II. $H > K$

III. $D > P$

(a) Only conclusion III is True
(b) Either conclusion I and II is True
(c) Only conclusion I is True
(d) Neither conclusion I nor II is True
(e) Only conclusions I and III are True

Q81. Direction: In the following question, assume the given statement to be true. Find which of the following conclusion(s) is/are definitely true and then give your answer accordingly.

Statement: $U < V, W > X \geq Y, Y = V$

Conclusion:

I. $X > V$

II. $U < W$

(a) Both I and II are true
(b) None is true
(c) Only I is true
(d) Only II is true
(e) Either I or II is true

Q82. Directions: In the following question assuming the given statements to be True, find which of the conclusion among given conclusions is/are true and then give your answers accordingly.

Statements: $X > P < Z; P < J = O > M$

Conclusions:

I. $P > M$

II. $X < J$

(a) Only I is true
(b) Only II is true
(c) Both I and II are true
(d) Neither I nor II is true
(e) Either I or II is true

Directions

Direction: Read the information carefully and answer the question given below.

Eight cars Nano, Maruti, Ford, BMW, Creta, Desire, Honda and I10 are parked in a parking place. Some are facing north direction while some are facing south direction. Not more than two cars parked adjacent to each other are facing the same direction. Cars parked at extreme ends are facing the opposite direction.

Two cars are parked between Ford and Creta and one of them is parked at an extreme end. Honda is parked third to the left of Ford. Maruti is second to the right of BMW, which faces north and none are parked near Ford. I10 and Nano are parked adjacent to each other. Desire is third to the right of Maruti. Nano is parked second to the right of Desire. Cars which are near BMW are facing the opposite direction.

Q83. Which of the following car is parked immediately to the right of Ford?

(a) Desire
(b) Nano
(c) I10
(d) Maruti

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(e) BMW

Q84. How many cars are there between Honda and Nano?

(a) None
(b) One
(c) Two
(d) Three
(e) Four

Q85. What is the position of Desire with respect to Honda?

(a) Immediate to the right
(b) Second to the left
(c) Second to the right
(d) Immediate to the left
(e) Third to the right

Q86. How many cars are parked to the right of BMW?

(a) Two
(b) None
(c) Four
(d) Five
(e) More than five

Q87. Directions: One statement is given, followed by two conclusions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can be definitely drawn from the given statement.

Statement: There is an 86% chance that a person with OCD is suffering from depression.

Conclusions:

I. A person who is suffering from depression has OCD.

II. People with the condition of OCD suffer from the symptoms of depression.

(a) Only conclusion I is true.
(b) Only conclusion II is true.
(c) Either I or II is true.
(d) Neither I nor II is true.
(e) Both I and II are true.

Q88. Directions: In each of the following questions, the statement is given followed by two conclusions numbered I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can be drawn definitely from the given statement.

Statements: We should inform all our employees not to read newspapers during office hours - Chief Manager tells Chief Administrator.

Conclusions:

I. Reading newspapers during office hours is desirable.

II. Office efficiency will not increase by stopping this.

(a) Only 1 follows
(b) only 2 follows
(c) both 1 and 2 follows
(d) either 1 or 2 follows
(e) neither 1 or 2 follows

Q89. Directions: In each question below is given one/more statements that followed by two assumptions numbered I and II. Consider the statement and decide which of the given assumptions is implicit.

Statement: As the prices of petrol and diesel shoot up, more and more people are resorting to the use of electric vehicles.

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Assumptions:

I. Using electricity for powering vehicles is less expensive than using petrol or diesel

II. Many people cannot afford the raised prices of petrol and diesel

(a) Only assumption I is implicit
(b) Only assumption II is implicit
(c) Both I and II are implicit
(d) Neither I nor II is implicit
(e) Either I or II

Q90. Directions: A statement is given followed by two inferences I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given inferences, if any, follow from the given statement.

Statements: The main reasons for a poor yield were not only the floods and heavy rains but also the insouciant use of chemicalized disinfectants destroying the plants from within and damaging the fertility of the soil, in turn ruining the chance of further use as well.

Inferences:

I. The soil will not be able to produce a good yield in the future.

II. The floods and rains made the soil infertile and futile.

(a) Only I follows.
(b) Only II follows.
(c) Both I and II follow.
(d) None of them follows.
(e) Either I or II follows.

Directions

Directions: Study the following information carefully and answer the below questions.

Six persons Akhil, Anuj, Aakash, Anish, Arun and Ajay work in office at different posts viz. Clerk, Manager, Director, Chairman, Vice President and President but not necessarily in the same order. (Please Note: the Position has been given increasing order of seniority with Clerk being the junior most position whilst President being the senior most position). No two persons are at same positions. They are ordered as such that the least senior person is at the bottom whereas the senior most person is at the top.

Anish is not the senior most person but he is senior than Ajay. There are three positions between Arun and Anish. There are two positions between Ajay and Arun. Ajay is senior than Arun. Neither Aakash nor Arun is the President in the department. Akhil is senior than Aakash. Anuj is not junior than Anish but he is senior than Aakash.

Q91. What is the position of Aakash in the department?

(a) Clerk
(b) Manager
(c) Director
(d) Chairman
(e) None of these

Q92. The one who is senior than Ajay but junior than Anuj is at which post in the department?

(a) Clerk
(b) Manager
(c) Director
(d) Chairman
(e) None of these

Q93. If all the person are arranged according to their name in alphabetical order than who will be the fifth most senior person in the department? From President to the clerk order

(a) Ajay
(b) Akhil
(c) Arun
(d) Anish

(e) Anuj

Q94. Who is working as chairman in the company?

(a) Ajay
(b) Anil
(c) Arun
(d) Anish
(e) Anuj

Q95. Which of the following person working as second junior most position in the company?

(a) Ajay
(b) Akhil
(c) Arun
(d) Aakash
(e) Anuj

Directions

Directions: Study the given information carefully and answer the questions.

Seven persons Rahul, Ramesh, Garvit, Angad, Arjun, Mahesh and Ravish went to an event with three different gadgets viz. Laptop, TV, Tablet not necessarily in the same order. Not more than 3 people has same gadget.

Ramesh went to event with TV. Mahesh has the gadget not same as the gadget of Ramesh. Tablet was owned by Garvit. Angad went to the event with Laptop. Arjun's gadget is not same as the gadget of Ramesh. Rahul's gadget is neither same as the gadget of Angad nor of Garvit. Only two people has gadget TV. Mahesh does not have Laptop. Ravish's Gadget is not same as the gadget of Garvit. Arjun's gadget is not same as the gadget of Mahesh.

Q96. Who has Laptop?

(a) Rahul
(b) Mahesh
(c) Garvit
(d) Ravish
(e) None of these

Q97. Which of the following pair has Tablet?

(a) Garvit and Ravish
(b) Mahesh and Garvit
(c) Rahul and Garvit
(d) Ramesh and Garvit
(e) None of these

Q98. Which of the following pair has TV?

(a) Garvit and Ravish
(b) Mahesh and Garvit
(c) Rahul and Garvit
(d) Ramesh and Rahul
(e) None of these

Q99. Three out of four form a group which of the following does not belong to that group?

(a) Arjun
(b) Garvit
(c) Ravish
(d) Angad
(e) None of these

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Q100. Which of the following gadget Arjun has?

(a) Laptop
(b) TV
(c) Tablet
(d) either a or b
(e) None of these

QUANTITATIVE APTITUDE

Q101. Find the wrong number in the given series.

1320, 980, 660, 220, 55, 11

(a) 220
(b) 980
(c) 55
(d) 11
(e) 660

Q102. Find the wrong number in the given series.

17, 25, 52, 112, 241, 457

(a) 457
(b) 52
(c) 25
(d) 112
(e) 241

Q103. Find the wrong number in the given series.

120, 210, 330, 504, 720, 990, 1320

(a) 210
(b) 504
(c) 330
(d) 1320
(e) 990

Q104. Find the wrong number in the given series.

32, 16, 24, 60, 210, 360

(a) 24
(b) 16
(c) 210
(d) 60
(e) 360

Q105. Find the wrong number in the given series.

4, 3, 16, 12, 40, 48

(a) 3
(b) 12
(c) 48
(d) 40
(e) 16

Q106. In the following question, two statements are numbered as A and B. On solving these statements, we get quantities A and B respectively. Solve both quantities and choose the correct option.

Quantity A: The simple interest received on a sum of Rs.24000 for 3 years at a certain rate of interest is Rs. 10800. Find the rate of Interest.

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Quantity B: The compound interest received on a sum of Rs.16000 for 3 years at a certain rate of interest is Rs. 8334. Find the rate of interest.

(a) Quantity A ≥ Quantity B
(b) Quantity A ≤ Quantity B
(c) Quantity A < Quantity B
(d) Quantity A > Quantity B
(e) Quantity A = Quantity B or No relation

Q107. In the following question, two statements are numbered as A and B. On solving these statements, we get quantities A and B respectively. Solve both quantities and choose the correct option.

Quantity A: A invests Rs. 12000 in a business. After 6 months, B joined him with the investment of Rs. 18000. After one year, they earned a profit of Rs. 21000. Find the share of B.

Quantity B: B invests Rs. 30000 in a business. After 4 months, C joined him with the investment of Rs. 20000. After one year, they earned a profit of Rs. 13000. Find the share of B.

(a) Quantity A ≥ Quantity B
(b) Quantity A ≤ Quantity B
(c) Quantity A < Quantity B
(d) Quantity A > Quantity B
(e) Quantity A = Quantity B or No relation

Q108. In the following question, two statements are numbered as A and B. On solving these statements, we get quantities A and B respectively. Solve both quantities and choose the correct option.

Quantity A: A can do a piece of work in 10 days and B can do the same work in 15 days. They start working together and after 4 days, A left the work. Find in how many days the total work will be completed.

Quantity B: P can do a piece of work in 15 days and Q can do the same work in 25 days. They start working together and after 5 days, Q left the work. Find in how many days the remaining work will gets completed.

(a) Quantity A ≥ Quantity B
(b) Quantity A ≤ Quantity B
(c) Quantity A < Quantity B
(d) Quantity A > Quantity B
(e) Quantity A = Quantity B or No relation

Q109. In the following question, two statements are numbered as A and B. On solving these statements, we get quantities A and B respectively. Solve both quantities and choose the correct option.

Quantity A: Find the value of x: 598 ÷ 23 + √144 = √x + 288 ÷ 16

Quantity B: Find the value of x: 2378 – 542 + 642 = 3x + 80 × 15

(a) Quantity A ≥ Quantity B
(b) Quantity A ≤ Quantity B
(c) Quantity A < Quantity B
(d) Quantity A > Quantity B
(e) Quantity A = Quantity B or No relation

Q110. In the following question, two statements are numbered as A and B. On solving these statements, we get quantities A and B respectively. Solve both quantities and choose the correct option.

Quantity A: A shopkeeper allows a discount of 10% on an article and still earns 20%. If the Marked price of an Article is Rs. 12000. Find the Cost price.

Quantity B: After selling an article for Rs. 10800, A shopkeeper earns a profit of 12.5%. Find the cost price of the article.

(a) Quantity A ≥ Quantity B
(b) Quantity A ≤ Quantity B
(c) Quantity A < Quantity B
(d) Quantity A > Quantity B
(e) Quantity A = Quantity B or No relation

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Q111. A lends Rs. 700 to B and a certain amount to C at the same time at 3% annual simple interest. If after 2 years, A receives Rs. 252 as interest from both. Then what amount did A give to C?

(a) Rs. 3200
(b) Rs. 4000
(c) Rs. 3500
(d) Rs. 2400
(e) Rs. 3000

Q112. Milk and water are mixed in vessel A in the ratio of 3 : 7 and in the vessel B in the ratio of 5 : 7. In what ratio should quantities be taken from the two vessels so as to form a mixture in which milk and water will be in the ratio 17 : 28?

(a) 2 : 3
(b) 3 : 4
(c) 1 : 2
(d) 2 : 5
(e) 2 : 1

Q113. A person travels from X to Y at a constant speed. If his speed was increased by 10 km/hour, it would have taken one hour lesser to cover the distance. It would have taken further 45 minutes lesser if the speed was further increased by 10 km/h. Find the distance between X and Y.

(a) 300 km
(b) 380 km
(c) 400 km
(d) 340 km
(e) 420 km

Q114. If the area of a triangle is 14196 cm^2 and the ratio of its height to its base is 6 : 7, then find the base of triangle.

(a) 194 cm
(b) 186 cm
(c) 176 cm
(d) 172 cm
(e) 182 cm

Q115. Curved surface area of a cylinder is 440 sq cm. If circumference of its base is 44 cm, what is the height of the cylinder?

(a) 15 cm
(b) 8 cm
(c) 10 cm
(d) 12 cm
(e) 20 cm

Q116. The average expenditure of a person for 10 days is Rs. 45 per day. If his average expenditure for the first 3 days is Rs. 52 per day, then what will be his average expenditure for the remaining 7 days.

(a) Rs. 32
(b) Rs. 48
(c) Rs. 38
(d) Rs. 42
(e) Rs. 26

Q117. 5 men, 6 women and 4 children can complete a work in 10 days. 6 women and 6 children can do it in 20 days, while 2 men and 6 women can do it in 18 days. In how many days will 2 men and 1 woman will complete the same work?

(a) 30 days
(b) 36 days
(c) 42 days
(d) 40 days
(e) 52 days

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Q118. Two pipes can fill a cistern in 12 minutes and 24 minutes respectively. The pipes are opened simultaneously, and it is found that due to leakage in the both pipes it took 2 minutes more to fill the cistern. When the tank is completely full, in what time will the leak empty it?

(a) 30 minutes
(b) 20 minutes
(c) 60 minutes
(d) 40 minutes
(e) 50 minutes

Q119. The ratio between the present ages of A and B is 4 : 5. If the difference between their present ages is 8 years, Find the sum of their present ages.

(a) 56 years
(b) 60 years
(c) 72 years
(d) 64 years
(e) 70 years

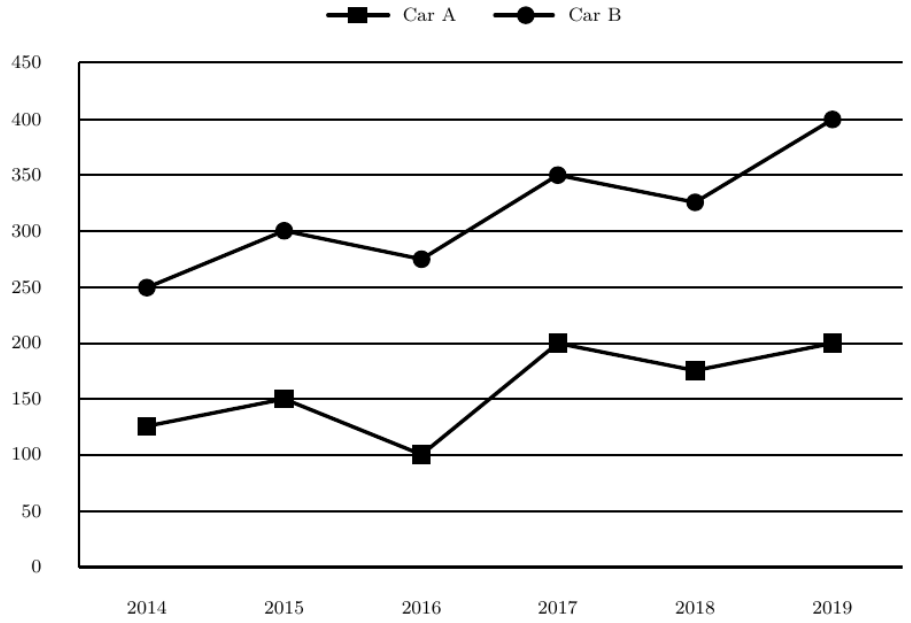
Q120. The ratio of incomes of A and B is 5 : 4 and ratio of their expenditure is 2 : 1. If the savings of both A and B are equal, then what is the ratio between income and expenditure of A?

(a) 3 : 2
(b) 4 : 1
(c) 2 : 1
(d) 5 : 3
(e) 5 : 2

Directions

Directions: Read the line graph carefully and answer the following questions carefully.

The following line graph shows sales of two different Cars A and B in six different years.



Q121. Total number of cars A sold in the year 2015, 2016 and 2019 together is what percent of the total number of cars B sold in the year 2014 and 2017 together?

(a) 50%
(b) 66.66%
(c) 60%
(d) 75%
(e) 125%

Q122. Total number of cars B sold in the year 2016 and 2018 together is how much percent more than the total number of cars A sold in the year 2017 and 2019 together?

(a) 33.33%
(b) 120%
(c) 75%
(d) 25%
(e) 50%

Q123. Find the ratio between the average number of cars A sold in the year 2015, 2016 and 2017 together to the average number of cars B sold in the year 2014, 2015 and 2017 together.

(a) 2 : 1
(b) 1 : 3
(c) 1 : 2
(d) 2 : 3
(e) 3 : 2

Q124. Total number of cars sold in the year 2016 is how much percent more/less than the total number of cars sold in the year 2018?

(a) 50%
(b) 25%
(c) 12.5%
(d) 10%
(e) 20%

Q125. Find the difference between Car A and B sold in the all the years together.

(a) 850
(b) 950
(c) 750
(d) 1050
(e) 1150

Q126. A and B together can do a piece of work in 71/5 days, B and C together can do the same piece of work in 102/7 days. A, B and C working together can complete the work in 41/2 days. In what time B working alone can complete the work?

(a) 18 days
(b) 24 days
(c) 72 days
(d) 36 days
(e) 48 days

Q127. A and B started a business in partnership and made investment in the ratio of 3 : 5. After 8 months A left the business and the profit share of B at the end of the year is Rs. 7200. Find the difference of the profit share of A and B.

(a) Rs. 2280
(b) Rs. 2400
(c) Rs. 4120
(d) Rs. 2240
(e) Rs. 4320

Q128. A person invested Rs. 46875 at some rate of compound interest for 3 years. At the end of 3 years he receives Rs. 12174 as interest. Find the rate of compound interest.

(a) 10%
(b) 8%
(c) 12%
(d) 6%

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(e) 9%

Q129. A person sold a camera at a profit of Rs. 1200 and lens at the profit of 25%. If the overall profit results to Rs. 2700, then find the cost price of the lens.

(a) Rs. 6600
(b) Rs. 4800
(c) Rs. 6000
(d) Rs. 4000
(e) Rs. 7000

Q130. A person can row a boat from A to B upstream in 4 hours 30 minutes, and downstream in 3 hours. If the speed of the stream is 2 km/hr, find the speed of the boat in still water.

(a) 14 km/hr
(b) 10 km/hr
(c) 12 km/hr
(d) 8 km/hr
(e) 16 km/hr

Q131. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer-

I. $12x^2 – 7x + 1 = 0$

II. $12y^2 – 11y + 2 = 0$

(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) Either x = y or Relationship between x and y cannot be established.

Q132. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer-

I. $2x^2 – 9x + 4 = 0$

II. $3y^2 – 4y + 1 = 0$

(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) Either x = y or Relationship between x and y cannot be established.

Q133. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer-

I. $\sqrt{(x-4)} = 2$

II. $(y – 5)^2 = 9$

(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) Either x = y or Relationship between x and y cannot be established.

Q134. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer-

I. $x^2 – 6x + 8 = 0$

II. $2y^2 – 7y + 6 = 0$

(a) $x > y$
(b) $x < y$

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(c) x ≥ y
(d) x ≤ y
(e) Either x = y or Relationship between x and y cannot be established.
(5) none of these

Q135. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer-

I. $x^2 – 18x + 77 = 0$

II. $y^2 – 11y + 30 = 0$

(a) x > y
(b) x < y
(c) x ≥ y
(d) x ≤ y
(e) Either x = y or Relationship between x and y cannot be established.

Q136. Two trains having lengths of 90 m and 110 m are running on parallel track in the same direction with slower trains running at a speed of 45 km/h. The train, having a length of 110 m, crosses a man in the slower train in 18 s. Find the speed of the faster train.

(a) 67 km/hour
(b) 72 km/hour
(c) 70 km/hour
(d) 66 km/hour
(e) 74 km/hour

Q137. A person invested a sum of Rs. 4000 at compound interest for 3 years at 10% per annum rate of interest. How much money should he invest at simple interest so that he earns the same amount of interest at 10% rate of interest in 4 years?

(a) Rs. 3820
(b) Rs. 3420
(c) Rs. 3000
(d) Rs. 3310
(e) Rs. 3400

Q138. The speed of a car is 1.5 times the speed of a bus. If the speed of the car is 60 km/hr then what will be the difference in the time taken by the bus and the time taken by the car to cover a distance of 720 km?

(a) 6 hours
(b) 8 hours
(c) 9 hours
(d) 7 hours
(e) 5 hours

Q139. If 9 men, 6 women and 6 children can do a piece of work in 8 days, 16 women and 6 children can do the same work in 10 days and 6 men and 10 women can do the same work in 10 days then in how many days will 2 men and 10 women will complete the same work?

(a) 16 days
(b) 20 days
(c) 18 days
(d) 15 days
(e) 14 days

Q140. The ratio of incomes of A, B and C is 7 : 9 : 10 and their respective savings are in the ratio of 21 : 27 : 32. If the total savings of the three is Rs. 16,000 and the total income is 80% of Rs. 1,30,000 then what is the total expenditure of A and C?

(a) Rs. 61480
(b) Rs. 56800

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(c) Rs. 57400
(d) Rs. 66780
(e) Rs. 59300

Directions

Directions: Study the following information carefully to answer the questions that follow:

A Shopkeeper sells 4 different types of products A, B, C and D. The cost price of product B is Rs. 2000 which is marked up by 20%. The marked price of product A is Rs. 150 less than the marked price of product B. The average of the cost price of all 4 products is Rs. 2050. He earns a profit of Rs. 450 on selling product D. The marked price of product D is Rs. 1400 more than the marked price of product C. Shopkeeper also offers the discount of 20%, 10% and 15% on products A, B and C respectively. He also earns the profit of 20%, 30% and 15% on products A, C and D respectively.

Q141. Find the difference between selling price of product C and product D.

(a) Rs. 1540
(b) Rs. 1380
(c) Rs. 1160
(d) Rs. 1440
(e) Rs. 1240

Q142. Find the total profit earned by the shopkeeper on selling all the 4 products.

(a) Rs. 1640
(b) Rs. 1420
(c) Rs. 1560
(d) Rs. 1380
(e) Rs. 1180

Q143. Find the discount percentage offered by shopkeeper on product D.

(a) 12.25%
(b) 14.5%
(c) 13.75%
(d) 16.5%
(e) 10.25%

Q144. The selling price of product E is 11.11% more than the selling price of product B. If it is sold after giving two successive discounts of 10% and 16.67%, then find the marked price of product E.

(a) Rs. 3200
(b) Rs. 2600
(c) Rs. 4000
(d) Rs. 3000
(e) Rs. 2800

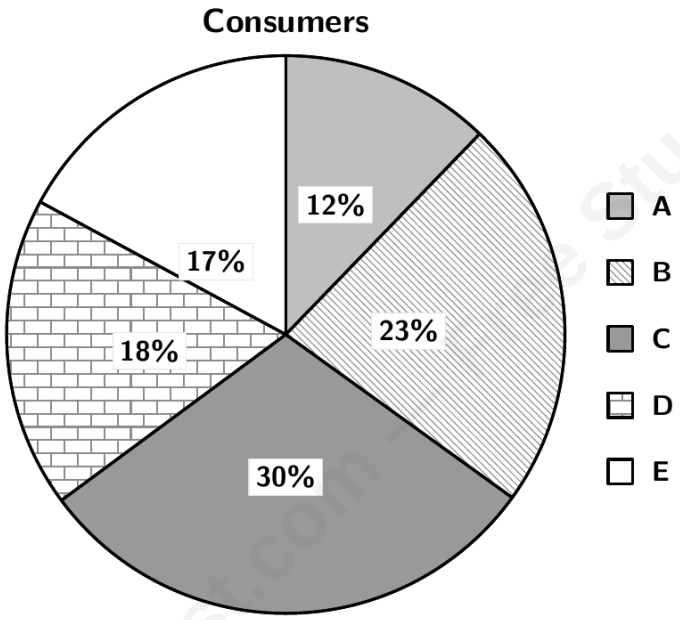
Q145. Had he sold product C at a loss of 10%, then what would have been the selling price of product C?

(a) Rs. 1470
(b) Rs. 1530
(c) Rs. 1640
(d) Rs. 1820
(e) Rs. 1720

Directions

Direction: The pie chart shows the number of consumers of 5 different companies from A To E. The total number of consumers are 4500. Study the pie chart carefully and answer the following questions.

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Q146. If 12% of consumers of company C shift to company A, then find the ratio of the consumers of company A and C.

(a) 77 : 152
(b) 85 : 147
(c) 83 : 144
(d) 71 : 141
(e) 13 : 22

Q147. The consumer of company E and D together is approximately what percent of the consumer of company A, B and C together?

(a) 54%
(b) 58%
(c) 49%
(d) 61%
(e) 47%

Q148. Find the average of the consumers of company D, E and C, if 10% of consumer from D and 20% of consumer from C shift to company B and A respectively.

(a) 937
(b) 858
(c) 841
(d) 872
(e) 923

Q149. Find the difference of the consumers of company A and company C, if all the consumers from company B shift to company A and C in the ratio of 11 : 12.

(a) 885
(b) 775
(c) 757
(d) 855
(e) 798

Q150. If 230 consumers from company C shift to company E and some consumers from company B shift to company D, the ratio of the consumers of company C and B becomes 7 : 5. Find the number of consumers that shifted from company B.

(a) 241
(b) 247

(c) 223
(d) 230
(e) 235

ANSWER KEY

1	b	2	e	3	e	4	c	5	d	6	d	7	e	8	a	9	d	10	c
11	d	12	a	13	d	14	b	15	c	16	e	17	d	18	b	19	e	20	b
21	d	22	c	23	c	24	d	25	c	26	a	27	b	28	e	29	b	30	d
31	c	32	b	33	b	34	b	35	a	36	e	37	d	38	a	39	d	40	b
41	a	42	d	43	b	44	b	45	c	46	e	47	a	48	b	49	a	50	d
51	c	52	c	53	b	54	a	55	e	56	a	57	e	58	e	59	a	60	c
61	b	62	d	63	e	64	a	65	a	66	d	67	b	68	d	69	b	70	a
71	b	72	b	73	a	74	b	75	c	76	e	77	a	78	d	79	b	80	e
81	d	82	d	83	b	84	d	85	b	86	a	87	d	88	e	89	a	90	a
91	b	92	e	93	e	94	a	95	d	96	d	97	b	98	d	99	b	100	a
101	b	102	d	103	c	104	e	105	d	106	e	107	e	108	d	109	c	110	c
111	c	112	c	113	e	114	e	115	c	116	d	117	b	118	d	119	c	120	e
121	d	122	e	123	c	124	b	125	b	126	c	127	e	128	b	129	c	130	b
131	e	132	e	133	c	134	c	135	a	136	a	137	d	138	a	139	d	140	c
141	e	142	b	143	c	144	a	145	b	146	e	147	a	148	b	149	d	150	e

SOLUTIONS

Q1. Answer: (b) Entrepreneurs have a higher chance of earning as much or more than salaried workers when they go back to th...

The correct answer is option 2)

• Entrepreneurship may fail but it doesn't mean we should not try it.

• According to the passage, entrepreneurship can bring us a good amount of money.

• As per the passage, the labor market gives equal chances to those entrepreneurs who have failed in their ideas.

• It is not stated anywhere that we should first try to do a job then go for entrepreneurship.

• Thus, we can say that option 2, only can be inferred from the passage.

Q2. Answer: (e) Both 2 and 3

The correct answer is option 5)

• "At the same time, entrepreneurs who stay longer than two years, make substantially more than similar salaried workers."

• Maybe the skills developed during [a] self-employment spell are useful as [a] salaried worker."

• These two sentences are directly given in the passage and we can deduce the correct options from these lines.

Q3. Answer: (e) Both 2 and 4.

The correct answer is option 4)

• The information given in options 1, 2 & 3 can be inferred from the passage.

• There is nothing found in the passage as per statement 4 because 'next job pays as much or more than the entrepreneur would have made if they'd never been self-employed.'

• The passage says : "he found that individuals who had been self-employed at one point in their career fared better.." but option 2 says fare worse.

• Hence, the answer will be option 5.

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Q4. Answer: (c) Entrepreneurship and financial stabiity.

The correct answer is option 3)

• Entrepreneurship has its risks also. So, option 1 is not the most appropriate and same for option 4.

• It is nowhere stated that a job is better than entrepreneurship. So, option 5 is also not correct.

• The passage mainly talks about the financial aspects of entrepreneurship rather than taking it as a new outlook.

Q5. Answer: (d) Though entrepreneurship is risky financially, there are people who follow their passions.

The correct answer is option 4)

• "Entrepreneurship isn't usually worth the risk, some research says, at least strictly in financial terms. Thankfully, plenty of people take the plunge anyway", from this sentence of the passage we can easily deduce that there are a lot of people try entrepreneurship despite it being very risky.

Q6. Answer: (d) Employees

The correct answer is option 4)

• "Individuals who attempt to be employees / entrepreneur but abandon entrepreneurship in less than two years are not punished,....." is the correct sentence.

• Here, we are talking about entrepreneurs, not employees.

Q7. Answer: (e) Both 1 and 4

The correct answer is option 5)

Key Points

Word	Meaning
Circumvent	find a way around(an obstacle)
Linger	stay in a place longer than necessary because of a reluctance to leave
Withhold	refuse to give (something that is due to or is desired by another).
Avoid	keep away from or stop oneself from doing (something)
Pursue	follow or chase (someone or something).

• Both circumvent and avoid are opposite in meaning to the word pursue.

• So, the correct option is no 5.

Q8. Answer: (a) Depends on

The correct answer is option 1)

Phrase	Meaning
Works on	to spend time producing or improving something
Depends on	to need (someone or something) for support, help
Thrives on	to do well in a particular kind of situation
Breaks down	a failure to function
Hinges on	to need (someone or something) for support, help: to depend on (something)

So, the phrase 'depends on' has the same meaning as 'hinges on' has.

Q9. Answer: (d) Stints

The correct answer is option 4)

Words	Meaning
Situations	a position of employment
journey	a long and often difficult process of personal change and development.
Stints	a person's fixed or allotted period of work

Stunt	prevent from growing or developing properly.

• As we are talking about work or job so only 'stints' is a specific word that can serve the purpose.

Q10. Answer: (c) Traditional

The correct answer is option 3)

Word	Meaning
Symmetrical	made up of exactly similar parts facing each other or around an axis; showing symmetry.
Atypical	not representative of a type, group, or class.
Traditional	habitually done, used, or found.
Imaginative	having or showing creativity or inventiveness.
Conventional	based on or in accordance with what is generally done or believed.

• So the word 'traditional' is similar in meaning to the word 'conventional'.

Q11. Answer: (d) Talent retention - A very crucial challenge for corporate world.

The correct answer is option 4)

• The writer talks not only about the methods of controlling attrition but also about its causes and importance of talent retention.

• All the above factors are given in different options so we take options 1, 2 & 3 to be correct.

• Option 4 can be a common title for all these factors, so Talent retention - "A very crucial challenge for corporate world" can be the most suited title for the passage.

Q12. Answer: (a) The innovation and service delivery is the factor that makes a company different from others.

The correct answer is option 1)

• Compensation is not the only way to control attrition, this is clearly given in passage, so option 2 is not correct.

• Attrition is mostly at the junior levels but we can't say that it is only at the junior levels, so option 3) is also not correct.

• The passage doesn't talk about talent acquisition so option 4) is not correct as well.

• The only correct option is option 1), the same information is given in the last line of the passage.

Q13. Answer: (d) Conscious

The correct answer in option 4)

Word	Meaning
cognizant	having knowledge or awareness.
Insensible	unaware of or indifferent to
Oblivious	not aware of or concerned about what is happening around one.
Unwitting	(of a person) not aware of the full facts.
Conscious	aware of and responding to one's surroundings

Q14. Answer: (b) Satisfaction

The correct answer is option 2)

Here we are talking about quality of product which relates with customer satisfaction. So, the correct word to be used is satisfaction which makes the sentence grammatically and contextually correct.

Q15. Answer: (c) Buildup

The correct answer is option 3)

Word	Meaning
Attrition	the process of reducing something's strength or effectiveness through sustained attack or pressure.
Corrosion	damage caused to metal, stone, or other materials by corrosion.

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Waste	use or expend carelessly, extravagantly, or to no purpose.
Buildup	a gradual accumulation or increase
Reduction	the action or fact of making something smaller or less in amount, degree, or size.

• So, 'buildup' is opposite in meaning to the word 'attrition'.

Q16. Answer: (e) All of the above

The correct answer is option 5)

Key Points

• Even though Higher education is primary reason for attrition. There are other reasons as mentioned in the paragraph "E. Balaji, CEO, Randstad India....."

• All the facts be it higher education, demand for a good salary, girls getting married and migrating and some other personal things are responsible for attrition in junior levels.

• As the information given in all the options is correct so we will choose option 5.

Q17. Answer: (d) Both A & B

The correct answer is option 4)

• As we are talking about some practice which is being followed at present, so the sentence must be in present indefinite tense.

• 'HCL Technologies' is one company; it seems plural but it is singular, so we need to use 'follows' in place of 'follow' in part (A).

• In part (B) believed should be replaced by believes for the reason mentioned in first point.

• So both the parts A & B have errors.

Q18. Answer: (b) Artefacts

The correct answer is option 2)

Words	Meaning
Innovation	a new method, idea, product, etc.
Artefacts	an object made by a human being, typically one of cultural or historical interest.
Replicate	make an exact copy of; reproduce.
Voluntary	done, given, or acting of one's own free will.
Acquisition	an asset or object bought or obtained, typically by a library or museum.

• So, 'artefacts' is the right word.

Q19. Answer: (e) Both 2 & 4

The correct answer is option 5)

• Young generation is not running only after money; option 1 is not correct.

• In last paragraph importance of innovation and importance of employees for innovation have been stated so, option 2 states correct information.

• Talent attrition is more in young age groups; so option 3 is incorrect.

• There are other factors also not only compensation; so option 4 states the correct information.

• Thus both option 2 & 4 are correct.

Q20. Answer: (b) Populist

The correct answer is option 2)

• The populist tone is used to discuss theories and characteristics exhibited by general populace. The author of the passage utilizes a populist tone to explain features and behavior of common people.

Q21. Answer: (d) Both B and C

The correct answer is option 4.

Hoard means a stock or store of money or valued objects, typically one that is secret or carefully guarded or an amassed store of useful information, retained for future use.

In A, it should be horde to refer to a group of people.

In B, it is correct as it means a store of information.

In C, it is correct as it means a stock or store of money or valued objects, typically one that is secret or carefully guarded.

So, B and C are correct.

Q22. Answer: (c) Both A and B

The correct answer is option 3, i.e. sentences A and B.

The word buckle carries several meanings:

1. a flat, typically rectangular frame with a hinged pin, used for joining the ends of a belt or strap.

2. fasten or decorate with a buckle especially one's seat belt in a car or aircraft.

3. bend and give way under pressure or strain.

Among these, the meaning given in 1, makes statement A correct. the meaning in 3 makes statement B correct.

But it has been incorrectly used in statement C. the correct word here should be bushel which means a measure of capacity equal to 8 gallons (equivalent to 36.4 litres), used for corn, fruit, liquids, etc.

Q23. Answer: (c) Both A and B

The correct answer is Both A and B.

The word bait carries several meanings:

1. something intended to entice someone to do something

2. deliberately annoy or taunt (someone).

3. put bait on (a hook) or in (a trap, net, or fishing area) to entice fish or animals.

Among these, the meaning given in 1, makes statement A correct.

The meaning in 3 makes statement B correct.

But it has been incorrectly used in statement C. the correct word here should be bet which means 'guess' in this case.

Q24. Answer: (d) Both B and C

The correct answer is option 4 i.e, both B and C.

In sentence B, it is used as an adjective to mean 'belonging to the present time'.

In sentence C, it is used as a noun to mean 'a body of water or current moving in a definite direction.

Whereas, in sentence A, it should have been 'currants' and not 'currents'.

Therefore, sentences B and C are correct and not sentence A.

Q25. Answer: (c) Both A and C

The correct answer is option 3, i.e. Both A and C.

The word team carries several meanings:

1. A group of people who work together at a particular job.

2. (team up) to join with another person or group in order to do something together

Among these, the meaning given in 1, makes statement A correct. the meaning in 2 makes statement C correct.

It has been incorrectly used in statement B. the correct word here should be teem which means (of rain) to fall heavily.

Q26. Answer: (a) Declining

The correct answer is option 1)

Word	Meaning
Declining	becoming smaller, fewer, or less; decreasing.
Increasing	becoming greater in size, amount, or degree; growing.
Devastating	highly destructive or damaging
Demonstrating	give a practical exhibition and explanation of
Exasperating	intensely irritating and frustrating.

• Habitat loss and hunting will definitely result in to decrement in number. So, declining is the right word to use here.

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Q27. Answer: (b) Crucial

The correct answer is option 2)

Word	Meaning
Banal	so lacking in originality as to be obvious and boring.
Crucial	decisive or critical, especially in the success or failure of something
Efficient	achieving maximum productivity with minimum wasted effort or expense.
Radical	relating to or affecting the fundamental nature of something
Rational	based on or in accordance with reason or logic.

• For conservation management monitoring the number of hippos is very important because this is part of their responsibility.

• So, the word to be used here is crucial.

Q28. Answer: (e) Traditional

The correct answer is option 5)

Word	Meaning
Leading	most important
Important	of great significance or value
Scientific	based on or characterized by the methods and principles of science.
Advanced	ahead in development or progress.
Traditional	existing in or as part of a tradition; long-established.

• An unreliable survey can not be leading or scientific or advanced.

• Something which is traditional may be inappropriate for today so, traditional is the best-suited word here.

Q29. Answer: (b) Unsafe

The correct answer is option 2)

• When Hippos are dangerous how will the surveyors feel ease or safe or interesting.

• Haunting means bringing strong images, memories, or feelings to mind.

• Although haunting may fit in here, the use of unsafe will be more appropriate because haunting is higher in degree as per sense; the context is not that much intense to use a word like 'haunting'.

Q30. Answer: (d) Inaccessible

The correct answer is option 4)

Words	Meaning
Accessible	able to be reached or entered.
Affordable	inexpensive; reasonably priced
Exposed	not covered or hidden; visible.

• Hippos are dangerous and surveyors are unsafe then for sure the area will be inaccessible where one can not reach easily.

• So the correct word to be used here is 'inaccessible'.

Q31. Answer: (c) Eye

The correct answer is option 3)

• The correct phrase is 'to keep an eye on' which means to keep under careful observation.

Q32. Answer: (b) Inspired

The correct answer is option 2)

Word	Meaning

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Annoyed	slightly angry; irritated
Inspired	(of a person) displaying a creative impulse in the activity specified
Threatened	state one's intention to do (something undesirable) in retribution.
Cheered	shout for joy or in praise or encouragement.
Demotivated	make (someone) less eager to work or study.

• Researchers are always ready to take new challenges for this is a part of their work.
• These challenges will create an impulse to find something new about Hippos.
• So, the most appropriate word to be used here is 'inspired'.

Q33. Answer: (b) Only C

Correct option: 2)

Option C) is incorrect because group of bureaucrat is wrong we will use group of bureaucrats.

The rest of the sentences are free of errors.

Q34. Answer: (b) Only II

Statements I and III are contextually and grammatically correct.

Key Points

In statement II, by will replace with because –

by (Prep.) is used for indicating the agent/object after a Passive Verb in case of Passive Voice.

Agent/Object = his friend & Passive Verb = accompanied

With (Prep.) indicates being in the company of

e.g - His friend stayed with him in the hospital.

He was knocked down by a bus.

Additional Information

In statement II: the usage of 'No sooner....than' is correct whenever we use 'no sooner' an adverb at the starting of the sentence, use the inversion form of the verb.

Correct Statement II: The patient was accompanied (Passive verb) with/by his friend (Object). [as the given sentence is in the Passive Voice.]

Thus, the correct answer is option 2.

Q35. Answer: (a) Only I

Statements II and III are contextually and grammatically correct.

In statement I, hard will replace hardly because –

hardly (Adverb): almost no/not/none but

hard (Adjective) : needing/using effort.

e.g: It is a hard problem to solve / It is hard practising meditation as the mind is always wandering.

There is hardly any tea left.

In our statement, John is working - and to answer the question, how is he working ? the correct answer will be he is working very hard / not very hardly - which means he is not working at all and negates the intended meaning of the sentence.

Correct statement I: John is working very hardly / hard as the examinations are fast approaching.

option 1 is the right answer

Q36. Answer: (e) Only I and III.

• Statement II is contextually and grammatically correct.
• In statement I, the usage of the word eats is incorrect.

The subject - young people - is Plural and thus must agree with a Plural verb. Thus, 'eat' will replace eats to rectify the incorrect sentence.

Correct Statement I: Young people in Britain eats / eat more snacks than people of the same age in other European countries.

• In statement III, the usage of the word block is incorrect.

Correct structutre of sentence with 'had'-Past Perfect Tense: Subject + had + v^3 + object + other words.

According to the structure, Had is followed by V^3.

But in statement III, Had is followed by 'block' - V^1, that should be replaced with blocked'-V^3 for making the sentence grammatically

correct.

Correct statement III. Without waiting for the instructions from the Government, some cable operators in the city had block / blocked the news.

Thus, Option 5 is the correct answer.

Q37. Answer: (d) Only I and II

Statement III is contextually and grammatically correct.

In statement I, the usage of word to is incorrect.

at will replace to because –

We usually say that someone arrives at a place vs arrives in a country/city.

e.g: We arrived at the station at 3 o'clock.

The President arrived in Rome today.

Correct sentence I: When shall we arrive to / at our destination?

In statement II, the usage of the word were is incorrect.

When there are 2 different subjects that are joined by either__or/ neithernor / not onlybut also/ or__ ,and are different in numbers, the subject closer to the verb decides whether the verb will be singular or plural,

• For e.g: There is / are either some boys (subject closer to the verb) or a girl in the class.

• Neither the ministers nor the King (subject closer to the verb) have / has been arrested.

• Not only Sapna but also her friends (subject closer to the verb) has / have come.

Here, the subject closer to the verb 'were' is Mohit and thus the verb ‘were’ will be replaced by was to agree with the Singular subject.

Correct sentence II. Neither Rohit nor Mohit were / was there at the restaurant when I went there.

Thus, option 4 is the correct answer.

Q38. Answer: (a) Which

The correct option is 1 i.e., which

The correct sentence is “Parents generally try to maximize the welfare of their children which is subject to constraints of money and time.” This formation correctly conveys the meaning to the sentence that the parents try to maximize the welfare of their children looking at their financial status. The rest of the connectors do not create a grammatically and contextually sound sentence.

Q39. Answer: (d) Both 2 and 3

Both As and While can be used to begin the sentence:

As the lecturer wandered from topic to topic, we wondered if there was any point to his discursive remarks.

While the lecturer wandered from topic to topic, we wondered if there was any point to his discursive remarks.

Options 1 i.e. but cannot act as a link.

Thus the correct answer is option 4.

Q40. Answer: (b) Although

The correct sentence is-

Although his story is based on a modicum of truth, most of the events he describes are fictitious.

Option 1, 3 and 4 cannot act as links.

Thus the correct answer is option 2.

Q41. Answer: (a) Since

Only 'Since' can be used to join the sentences - Since I didn't want to take a side, I put my headphones on and listened to some smooth jazz.

Rest of the options cannot act as a link.

Thus the correct answer is option 1.

Q42. Answer: (d) Both A and B

The correct answer is option 4.

Only 1 and 2 can be used to begin the sentence correctly, without changing the meaning of the initial sentences. The words 'as' and 'since' mean 'for the reason that'. They join the two sentences meaningfully. The correct sentences would be:

i. As Akriti needs to learn Chinese, I will teach her.

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ii. Since Akriti needs to learn Chinese, I will teach her.

Therefore, the correct answer is option 4.

Q43. Answer: (b) A-E

The correct answer is option 2 i.e. A-E.

We can look into the sentence the following way:

Radical feminists seek to (A)_____ patriarchy by (B)___ existing social (C)___ and institutions, and believe that (D)___ patriarchy will (E)_____ everyone from an unjust society.

It is clear that (B) and (C) has grammatically and meaningfully correct words. Also (D) justifies its bold word.

But from the point of view of grammar, A and E should be interchanged even though they are both verbs.

Abolish means "formally put an end to (a system, practice, or institution)." Patriarchy is a system of society or government in which men hold the power and women are largely excluded from it.

Liberate means "set (someone) free from imprisonment, slavery, or oppression."

Hence A and E should be interchanged.

Correct sentence: Radical feminists seek to (A)abolish patriarchy by (B)challenging existing social (C)norms and institutions, and believe that (D)eliminating patriarchy will (E)liberate everyone from an unjust society.

Q44. Answer: (b) B-D

The correct answer is option 2 i.e. B-D.

Explanation

We can look into the sentence the following way:

Since the (A)_____ of the economy occurred under the Narasimha Rao government, even the Congress has (B)___ itself from the Nehruvian socialist (C)___ it had so (D)___ advocated right up until and during Rajiv Gandhi's (E)_____.

Liberalization is a noun meaning "a process whereby a state lifts restrictions on some private individual activities." Liberalization occurs when something which used to be banned is no longer banned, or when government regulations are relaxed.

It is clear that (A) and (C) has grammatically and meaningfully correct words. Also (E) justifies its bold word.

But from the point of view of grammar, B should be a verb and D should be an adverb.

Distanced means "made (someone or something) far off or remote in position or nature." The "has" before B indicates that B should be a verb, no other verbs are present in that part of the sentence.

Fervently means "very enthusiastically or passionately." The verb "advocated" after D indicates that D should be an adverb.

Hence B and D should be interchanged.

Correct sentence: Since the (A)liberalization of the economy occurred under the Narasimha Rao government, even the Congress has (B)distanced itself from the Nehruvian socialist (C)ideology it had so (D)fervently advocated right up until and during Rajiv Gandhi's (E)leadership.

Q45. Answer: (c) A-C

The correct answer is option 3 i.e. A-C.

Explanation

We can look into the sentence the following way:

In 2017, a (A)_____ study published in Heritage Science found a (B)___ between the chemical (C)___ of old books and people’s (D)___ to them, which (E)_____ researchers to create a “historic book odour wheel.”

Connection and reactions are nouns.

It is clear that (B) and (D) has grammatically and meaningfully correct words. Also (E) justifies its bold word.

But from the point of view of grammar, A should be an adjective and C should be a noun.

Groundbreaking means "innovative; pioneering."

Composition means "the nature of something's ingredients or constituents; the way in which a whole or mixture is made up." Chemical composition is the arrangement, type, and ratio of atoms in molecules of chemical substances.

Hence A and C should be interchanged.

Correct sentence: In 2017, a (A)groundbreaking study published in Heritage Science found a (B)connection between the chemical (C)composition of old books and people’s (D)reactions to them, which (E)allowed researchers to create a “historic book odour wheel.”

Q46. Answer: (e) C-D

The correct answer is option 5 i.e. C-D.

We can look into the sentence the following way:

Apple’s work on communications satellites and next-generation (A)_____ technology means the (B)___ is likely to beam data to a user’s device, potentially (C)___ the (D)___ on wireless carriers, or for linking devices together without a (E)_____ network.

Wireless is an adjective meaning "using radio, microwaves, etc. (as opposed to wires or cables) to transmit signals."

It is clear that (A) and (B) has grammatically and meaningfully correct words. Also (E) justifies its bold word.

But from the point of view of grammar, C should be a verb and D should be a noun.

Mitigating means "making something less severe; diminish." The adverb "potentially" used before C indicates that a verb should follow.

Dependence means "the state of relying on or being controlled by someone or something else."

Hence C and D should be interchanged.

Correct sentence: Apple’s work on communications satellites and next-generation (A)wireless technology means the (B)aim is likely to beam data to a user’s device, potentially (C)mitigating the (D)dependence on wireless carriers, or for linking devices together without a (E)traditional network.

Q47. Answer: (a) A-C and D-E

The correct answer is option 1 i.e. A-C and D-E.

Key Points

• We can look into the sentence the following way:

• Fascists believe that liberal democracy is (A)_____ and regard the complete (B)___ of society under a (C)___ one-party state as necessary to prepare a nation for armed (D)___ and (E)_____ effectively to economic difficulties.

• Only B here has a grammatically correct and meaningful word. The rest of the bold words have to be interchanged.

• A and C have to be interchanged even though they are both adjectives.

• Obsolete means "no longer produced or used; out of date."

• Totalitarian means "relating to a system of government that is centralized and dictatorial and requires complete subservience to the state."

• D and E have to be interchanged. D should be a noun and E should be a verb.

• An armed conflict is a political conflict in which armed combat involves the armed forces of at least one state (or one or more armed factions seeking to gain control of all or part of the state), and in which at least 1,000 people have been killed by the fighting during the course of the conflict.

• Respond means "do something as a reaction to someone or something."

Correct sentence: Fascists believe that liberal democracy is (A)obsolete and regard the complete (B)mobilization of society under a (C)totalitarian one-party state as necessary to prepare a nation for armed (D)conflict and (E)respond effectively to economic difficulties.

Q48. Answer: (b) called out

The correct answer is option 2.

Call out -a decision made by an official in a sports contest

Q49. Answer: (a) threw away

To throw away something (or throw something away) means to ruin or lose something valuable or important, by doing something reckless or foolish.

Q50. Answer: (d) hang up

To hang up something (or hang something up) means to hang something, especially clothes, on a hanger or hook.

Q51. Answer: (c) W

8 People: P, Q, R, S, T, U, V and W.

8 colors: Red, Yellow, Green, Orange, Blue, White, Pink, and Black

Facing directions: 4 people are facing inside and other 4 are facing outside.

1) The one who likes blue is not facing outside.

2) U is sitting fifth to the left of the one who likes blue.

3) Only one person is sitting between U and the one who likes orange.

4) P is sitting third to the right of the one who likes orange.

5) Two persons are sitting between P and W.

6) W doesn’t like orange.

So, case 2 gets eliminated.

7) Neither W nor P is an immediate neighbour of Q.

8) The one who likes yellow is sitting third to the right of Q.
9) R and T are the immediate neighbours.
10) R is not an immediate neighbour of W nor he likes orange.
11) The one who likes White is an immediate neighbour of S.
12) S is sitting third to the left of R.
This condition doesn't satisfy in case 1(b) so this case gets eliminated.
13) The one who likes Red is sitting second to the left of the one who likes green.
14) R neither likes red nor black.
So, V likes Green and S likes Red.
Thus, we get that R likes Pink and W likes Black and the final arrangement will be as follows:
Hence, W black color.

Q52. Answer: (c) Pink

8 People: P, Q, R, S, T, U, V and W.
8 colors: Red, Yellow, Green, Orange, Blue, White, Pink, and Black
Facing directions: 4 people are facing inside and other 4 are facing outside.
1) The one who likes blue is not facing outside.
2) U is sitting fifth to the left of the one who likes blue.
3) Only one person is sitting between U and the one who likes orange.
4) P is sitting third to the right of the one who likes orange.
5) Two persons are sitting between P and W.
6) W doesn't like orange.
So, case 2 gets eliminated.
7) Neither W nor P is an immediate neighbour of Q.
8) The one who likes yellow is sitting third to the right of Q.
9) R and T are the immediate neighbours.
10) R is not an immediate neighbour of W nor he likes orange.
11) The one who likes White is an immediate neighbour of S.
12) S is sitting third to the left of R.
This condition doesn't satisfy in case 1(b) so this case gets eliminated.
13) The one who likes Red is sitting second to the left of the one who likes plum.
14) R neither likes red nor black.
So, V likes Green and S likes Red.
Thus, we get that R likes Pink and W likes Black and the final arrangement will be as follows:
Hence, R likes Pink color.

Q53. Answer: (b) Q is sitting fifth to the left of the one who likes Blue color

8 People: P, Q, R, S, T, U, V and W.
8 colors: Red, Yellow, Green, Orange, Blue, White, Pink, and Black
Facing directions: 4 people are facing inside and other 4 are facing outside.
1) The one who likes blue is not facing outside.
2) U is sitting fifth to the left of the one who likes blue.
3) Only one person is sitting between U and the one who likes orange.
4) P is sitting third to the right of the one who likes orange.
5) Two persons are sitting between P and W.
6) W doesn't like orange.
So, case 2 gets eliminated.
7) Neither W nor P is an immediate neighbour of Q.
8) The one who likes yellow is sitting third to the right of Q.
9) R and T are the immediate neighbours.
10) R is not an immediate neighbour of W nor he likes orange.
11) The one who likes White is an immediate neighbour of S.

12) S is sitting third to the left of R.
This condition doesn't satisfy in case 1(b) so this case gets eliminated.
13) The one who likes Red is sitting second to the left of the one who likes plum.
14) R neither likes red nor black.
So, V likes Green and S likes Red.
Thus, we get that R likes Pink and W likes Black and the final arrangement will be as follows:
Hence, the statement 'Q is sitting fifth to the left of the one who likes Blue' is not true.

Q54. Answer: (a) Two

8 People: P, Q, R, S, T, U, V and W.
8 colors: Red, Yellow, Green, Orange, Blue, White, Pink, and Black
Facing directions: 4 people are facing inside and other 4 are facing outside.
1) The one who likes blue is not facing outside.
2) U is sitting fifth to the left of the one who likes blue.
3) Only one person is sitting between U and the one who likes orange.
4) P is sitting third to the right of the one who likes orange.
5) Two persons are sitting between P and W.
6) W doesn't like orange.
So, case 2 gets eliminated.
7) Neither W nor P is an immediate neighbour of Q.
8) The one who likes yellow is sitting third to the right of Q.
9) R and T are the immediate neighbours.
10) R is not an immediate neighbour of W nor he likes orange.
11) The one who likes White is an immediate neighbour of S.
12) S is sitting third to the left of R.
This condition doesn't satisfy in case 1(b) so this case gets eliminated.
13) The one who likes Red is sitting second to the left of the one who likes plum.
14) R neither likes red nor black.
So, V likes Green and S likes Red.
Thus, we get that R likes Pink and W likes Black and the final arrangement will be as follows:
Hence, only two persons are sitting between R and the one who likes green color, when counted from the right of R.

Q55. Answer: (e) All the above

8 People: P, Q, R, S, T, U, V and W.
8 colors: Red, Yellow, Green, Orange, Blue, White, Pink, and Black
Facing directions: 4 people are facing inside and other 4 are facing outside.
1) The one who likes blue is not facing outside.
2) U is sitting fifth to the left of the one who likes blue.
3) Only one person is sitting between U and the one who likes orange.
4) P is sitting third to the right of the one who likes orange.
5) Two persons are sitting between P and W.
6) W doesn't like orange.
So, case 2 gets eliminated.
7) Neither W nor P is an immediate neighbour of Q.
8) The one who likes yellow is sitting third to the right of Q.
9) R and T are the immediate neighbours.
10) R is not an immediate neighbour of W nor he likes orange.
11) The one who likes White is an immediate neighbour of S.
12) S is sitting third to the left of R.
This condition doesn't satisfy in case 1(b) so this case gets eliminated.
13) The one who likes Red is sitting second to the left of the one who likes plum.
14) R neither likes red nor black.

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So, V likes Green and S likes Red.

Thus, we get that R likes Pink and W likes Black and the final arrangement will be as follows:

Hence, all the given combinations are correct.

Q56. Answer: (a) JLQNTD

The logic followed here is:

Similarly,

Hence, the correct answer is JLQNTD.

Q57. Answer: (e) Either 3 or 4

The family tree problem is as follows:

Since, the gender of U is not known, we cannot find the relation between T and U.

Q58. Answer: (e) Cannot be determined

The family tree problem is as follows:

Since the gender of U is not known, we cannot find the relation between T and U.

Q59. Answer: (a) A

The family tree problem is as follows:

Hence, A is the wife of Y.

Q60. Answer: (c) A

Persons: A, B, C, D, E, F, G and H.

Cities: Mumbai, Hyderabad, Kolkata, Bangalore, Chennai, Delhi, Pune, and Lucknow.

Months: January, Feb, June and August

1. E attends the meeting on 9^(th) of the month which has only 30 days and in Mumbai.
2. Only three people attend the Meeting between E and G.
3. 2 people attend Meetings between G and D.
4. D attend meeting in Chennai.

Month	Date	No. of days	Person	City
January	9	31	G	
18				
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18				

5. There are 3 meetings between the meetings of Chennai and Kolkata.
6. H attends the Meeting before D.
7. H and D attend the Meeting on the same date.
8. There are five meetings between meeting in Bangalore and meeting in Kolkata.

Month	Date	No. of days	Person	City
January	9	31	G	
18	H	Bangalore		
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai

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18				
August	9	31		
18		Kolkata		

9. Meeting in Hyderabad is on an even number date.
10. C does not attend the Meeting on 18^(th) of any months and not in the city Lucknow.
11. C and A attend the Meeting in the same month but not in February.
12. Meeting in Pune is before the Meeting in Bangalore.
13. B does not attend the meeting on even number date.

Month	Date	No. of days	Person	City
January	9	31	G	Pune
18	H	Bangalore		
February	9	28	B	Lucknow
18	D	Chennai		
June	9	30	E	Mumbai
18	F	Hyderabad		
August	9	31	C	Delhi
18	A	Kolkata		

This is the final arrangement.
Hence, A attends meeting on 18^(th) August.

Q61. Answer: (b) 5

Persons: A, B, C, D, E, F, G and H.
Cities: Mumbai, Hyderabad, Kolkata, Bangalore, Chennai, Delhi, Pune, and Lucknow.
Months: January, Feb, June and August
1. E attends the meeting on 9th of the month which has only 30 days and in Mumbai.
2. Only three people attend the Meeting between E and G.
3. 2 people attend Meetings between G and D.
4. D attend meeting in Chennai.

Month	Date	No. of days	Person	City
January	9	31	G	
18				
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18				

5. There are 3 meetings between the meetings of Chennai and Kolkata.
6. H attends the Meeting before D.
7. H and D attend the Meeting on the same date.
8. There are five meetings between meeting in Bangalore and meeting in Kolkata.

Month	Date	No. of days	Person	City
January	9	31	G	

18	H	Bangalore		
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18		Kolkata		

9. Meeting in Hyderabad is on an even number date.
10. C does not attend the Meeting on 18th of any months and not in the city Lucknow.
11. C and A attend the Meeting in the same month but not in February.
12. Meeting in Pune is before the Meeting in Bangalore.
13. B does not attend the meeting on even number date.

Month	Date	No. of days	Person	City
January	9	31	G	Pune
18	H	Bangalore		
February	9	28	B	Lucknow
18	D	Chennai		
June	9	30	E	Mumbai
18	F	Hyderabad		
August	9	31	C	Delhi
18	A	Kolkata		

This is the final arrangement.
G has meeting in Pune.
There are 5 meetings between G and C.
Hence, 5 is the correct answer.

Q62. Answer: (d) D, G

Persons: A, B, C, D, E, F, G and H.
Cities: Mumbai, Hyderabad, Kolkata, Bangalore, Chennai, Delhi, Pune, and Lucknow.
Months: January, Feb, June and August
1. E attends the meeting on 9th of the month which has only 30 days and in Mumbai.
2. Only three people attend the Meeting between E and G.
3. 2 people attend Meetings between G and D.
4. D attend meeting in Chennai.

Month	Date	No. of days	Person	City
January	9	31	G	
18				
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18				

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5. There are 3 meetings between the meetings of Chennai and Kolkata.
6. H attends the Meeting before D.
7. H and D attend the Meeting on the same date.
8. There are five meetings between meeting in Bangalore and meeting in Kolkata.

Month	Date	No. of days	Person	City
January	9	31	G	
18	H	Bangalore		
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18		Kolkata		

9. Meeting in Hyderabad is on an even number date.
10. C does not attend the Meeting on 18th of any months and not in the city Lucknow.
11. C and A attend the Meeting in the same month but not in February.
12. Meeting in Pune is before the Meeting in Bangalore.
13. B does not attend the meeting on even number date.

Month	Date	No. of days	Person	City
January	9	31	G	Pune
18	H	Bangalore		
February	9	28	B	Lucknow
18	D	Chennai		
June	9	30	E	Mumbai
18	F	Hyderabad		
August	9	31	C	Delhi
18	A	Kolkata		

This is the final arrangement.
Except D and G, all have meetings in same month.
Hence, “D, G” is the correct answer.

Q63. Answer: (e) B

Persons: A, B, C, D, E, F, G and H.
Cities: Mumbai, Hyderabad, Kolkata, Bangalore, Chennai, Delhi, Pune, and Lucknow.
Months: January, Feb, June and August
1. E attends the meeting on 9th of the month which has only 30 days and in Mumbai.
2. Only three people attend the Meeting between E and G.
3. 2 people attend Meetings between G and D.
4. D attend meeting in Chennai.

Month	Date	No. of days	Person	City
January	9	31	G	
18				
February	9	28		
18	D	Chennai		

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June	9	30	E	Mumbai
18				
August	9	31		
18				

5. There are 3 meetings between the meetings of Chennai and Kolkata.
6. H attends the Meeting before D.
7. H and D attend the Meeting on the same date.
8. There are five meetings between meeting in Bangalore and meeting in Kolkata.

Month	Date	No. of days	Person	City
January	9	31	G	
18	H	Bangalore		
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18		Kolkata		

9. Meeting in Hyderabad is on an even number date.
10. C does not attend the Meeting on 18th of any months and not in the city Lucknow.
11. C and A attend the Meeting in the same month but not in February.
12. Meeting in Pune is before the Meeting in Bangalore.
13. B does not attend the meeting on even number date.

Month	Date	No. of days	Person	City
January	9	31	G	Pune
18	H	Bangalore		
February	9	28	B	Lucknow
18	D	Chennai		
June	9	30	E	Mumbai
18	F	Hyderabad		
August	9	31	C	Delhi
18	A	Kolkata		

This is the final arrangement.
Hence, B attends meeting in Lucknow.

Q64. Answer: (a) 18^(th)June, H, Lucknow

Persons: A, B, C, D, E, F, G and H.
Cities: Mumbai, Hyderabad, Kolkata, Bangalore, Chennai, Delhi, Pune, and Lucknow.
Months: January, Feb, June and August
1. E attends the meeting on 9th of the month which has only 30 days and in Mumbai.
2. Only three people attend the Meeting between E and G.
3. 2 people attend Meetings between G and D.
4. D attend meeting in Chennai.

Month	Date	No. of days	Person	City

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January	9	31	G	
18				
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18				

5. There are 3 meetings between the meetings of Chennai and Kolkata.
6. H attends the Meeting before D.
7. H and D attend the Meeting on the same date.
8. There are five meetings between meeting in Bangalore and meeting in Kolkata.

Month	Date	No. of days	Person	City
January	9	31	G	
18	H	Bangalore		
February	9	28		
18	D	Chennai		
June	9	30	E	Mumbai
18				
August	9	31		
18		Kolkata		

9. Meeting in Hyderabad is on an even number date.
10. C does not attend the Meeting on 18th of any months and not in the city Lucknow.
11. C and A attend the Meeting in the same month but not in February.
12. Meeting in Pune is before the Meeting in Bangalore.
13. B does not attend the meeting on even number date.

Month	Date	No. of days	Person	City
January	9	31	G	Pune
18	H	Bangalore		
February	9	28	B	Lucknow
18	D	Chennai		
June	9	30	E	Mumbai
18	F	Hyderabad		
August	9	31	C	Delhi
18	A	Kolkata		

This is the final arrangement.
1) 18^(th)June, H, Lucknow → False
2) 9^(th) January, G, Pune → True
3) 18^(th) August, A, Kolkata → True
4) 9^(th) June, E, Mumbai → True
5) 18^(th) February, D, Chennai → True
Hence, “18^(th)June, H, Lucknow” is not true.

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Q65. Answer: (a) A

Persons: A, B, C, D, E and F.

1. D is lighter than only one person.
2. E is heavier than B but lighter than F.
3. A is heavier than F.
4. The person which is the third lightest has a weight of 73 kg and the person which is the heaviest is of 96 kg.

Number	Person	Weight
1	A	96
2	D	
3	F	
4	E	73
5	B	
6	C	

Hence, A is the heaviest among them.

Q66. Answer: (d) B

Persons: A, B, C, D, E and F.

1. D is lighter than only one person.
2. E is heavier than B but lighter than F.
3. A is heavier than F.
4. The person which is the third lightest has a weight of 73 kg and the person which is the heaviest is of 96 kg.

Number	Person	Weight
1	A	96
2	D	
3	F	
4	E	73
5	B	
6	C	

Hence, B is second lightest among them.

Q67. Answer: (b) 85 Kg

Persons: A, B, C, D, E and F.

1. D is lighter than only one person.
2. E is heavier than B but lighter than F.
3. A is heavier than F.
4. The person which is the third lightest has a weight of 73 kg and the person which is the heaviest is of 96 kg.

Number	Person	Weight
1	A	96
2	D	
3	F	
4	E	73
5	B	
6	C	

D is second heaviest among them.

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So, weight of D must be in between 73 and 96.

Hence, 85 is the correct answer.

Q68. Answer: (d) More than seven

Given number: 28462742

Thus, we get 8 pairs:

Forward: (2, 4), (2, 7), (4, 7), (2, 4)

Backward: (2, 8), (2, 6), (2, 4), (6,8)

Hence, the correct answer is 'more than seven'.

Q69. Answer: (b) chr

First, let us decode the words,

Hence, the code for 'catcher' in the given code language is chr.

Q70. Answer: (a) a

First, let us decode the words,

Hence, if 'everybody have dream' is coded as 'rad avn voy', then 'lsn' means 'a' in the given code language.

Q71. Answer: (b) ani

First, let us decode the words,

Hence, 'ani' is the code for 'Naina' in the given code language.

Q72. Answer: (b) 5 m

The figure according to the information given in the question will be as follows:

Here, distance between E and B can be determined using Pythagoras theorem.

$EB^2 = 3^2 + 4^2 = 5^2$

Hence, the distance between E and B is 5 m.

Q73. Answer: (a) 4 m

The figure according to the information given in the question will be as follows:

Hence, If a person goes 2 m South from point A, the distance between the current position of person and point F will be 4 m.

Q74. Answer: (b) North-West

The figure according to the information given in the question will be as follows:

Hence, Point A is in North-West direction with respect to point G.

Q75. Answer: (c) Both the conclusion follows

The least possible Venn diagram for the given statements is as follows,

I. Some rotten being good is a possibility → True (It can be possible as it is not definite)

II. Some apples are not good → True (It is definite)

Hence, both the conclusion follows.

Q76. Answer: (e) None of the conclusion follows

The least possible Venn diagram for the given statements is as follows,

I. Some tomato being pumpkin is a possibility → False (only potato is tomato which means all tomato are potato and other element can never be tomato. so, some tomato can never be pumpkin)

II. Some pumpkin being potato is a possibility → False (As some pumpkin are potato is definite from the statement 'some pumpkin are potato')

Hence, none of the conclusion follows.

Q77. Answer: (a) Only conclusion I follows

The least possible Venn diagram for the given statements is as follows,

I. Some homosapiens are not crazy→ True (It is definite)

II. All brave being crazy is a possibility → False (It is not possible as 'Only few homosapiens are crazy' which implies some homosapiens are not crazy, thus making the possibility impossible)

Thus, only conclusion I follows.

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'Only a few' means 'Some' and 'Some Not'
For example:
Statement: Only a few A are B.
Inference: Some A are B. Some A are not B.

Q78. Answer: (d) Both conclusion II and III follows

The least possible Venn diagram for the given statements is as follows,
I. Some good are not wise is a possibility → False (Some good are not wise is definite so its possibility is false)
II. No preparation is wise → True (It is definite)
III. Some preparation are good is a possibility → True (It can be possible)
Hence, Both conclusion II and III follows.

Q79. Answer: (b) Only conclusion I and II follows

The least possible Venn diagram for the given statements is as follows,
I. All share can be holders → True (It can be possible)
II. Some bank is not share → True (It is definite)
III. Some accounts are not bank is a possibility → False (It is definite)
Hence, only conclusion I and II follows.

Q80. Answer: (e) Only conclusions I and III are True

Given statement: K ≤ D, H ≥ R < P < K
On combining: H ≥ R < P < K ≤ D
Conclusions:
I. R < D → True (As, R < P < K ≤ D)
II. H > K → False (As, H ≥ R < P < K)
III. D > P → True (As, D ≥ K > P)
Therefore, only conclusions I and III are True.

Q81. Answer: (d) Only II is true

Given Statements: U < V, W > X ≥ Y, Y = V
On combining: U < V = Y ≤ X < W
Conclusion:
I. X > V → False (as V = Y ≤ X → X ≥ V)
II. U < W → True (as U < V = Y ≤ X < W → U < W)
Hence, only II is true.

Q82. Answer: (d) Neither I nor II is true

Given statements: X > P < Z; P < J = O > M
On combining: X > P < J = O > M; P < Z
Conclusions:
I. P > M → False (as P < O and O > M → thus clear relation between P and M cannot be established)
II. X < J → False (as X > P and P < J → thus clear relation between X and J cannot be established)
Hence, ‘Neither conclusion I nor II is true’ is the correct answer.

Q83. Answer: (b) Nano

1) Two cars are parked between Ford and Creta and one of them is parked at an extreme end.
2) Honda is parked third to the left of Ford.
3) Maruti is second to the right of BMW, which faces north and none of these are parked near Ford.
4) Desire is third to the right of Maruti.
5) Nano is parked second to the right of Desire.
6) I10 and Nano are parked adjacent to each other.(This eliminates case 2)
7) Cars parked at extreme ends are facing the opposite direction.
8) Cars which are near BMW are facing the opposite direction.
9) Not more than two cars parked adjacent facing the same direction.

Hence, Nano is parked immediately to the right of Ford.

Q84. Answer: (d) Three

1) Two cars are parked between Ford and Creta and one of them is parked at an extreme end.
2) Honda is parked third to the left of Ford.
3) Maruti is second to the right of BMW, which faces north and none of these are parked near Ford.
4) Desire is third to the right of Maruti.
5) Nano is parked second to the right of Desire.
6) I10 and Nano are parked adjacent to each other.(This eliminates case 2)
7) Cars parked at extreme ends are facing the opposite direction.
8) Cars which are near BMW are facing the opposite direction.
9) Not more than two cars parked adjacent facing the same direction.

Hence, three cars are there between Honda and Nano.

Q85. Answer: (b) Second to the left

1) Two cars are parked between Ford and Creta and one of them is parked at an extreme end.
2) Honda is parked third to the left of Ford.
3) Maruti is second to the right of BMW, which faces north and none of these are parked near Ford.
4) Desire is third to the right of Maruti.
5) Nano is parked second to the right of Desire.
6) I10 and Nano are parked adjacent to each other.(This eliminates case 2)
7) Cars parked at extreme ends are facing the opposite direction.
8) Cars which are near BMW are facing the opposite direction.
9) Not more than two cars parked adjacent facing the same direction.

Hence, Desire is second to the left of Honda.

Q86. Answer: (a) Two

1) Two cars are parked between Ford and Creta and one of them is parked at an extreme end.
2) Honda is parked third to the left of Ford.
3) Maruti is second to the right of BMW, which faces north and none of these are parked near Ford.
4) Desire is third to the right of Maruti.
5) Nano is parked second to the right of Desire.
6) I10 and Nano are parked adjacent to each other.(This eliminates case 2)
7) Cars parked at extreme ends are facing the opposite direction.
8) Cars which are near BMW are facing the opposite direction.
9) Not more than two cars parked adjacent facing the same direction.

Hence, only two cars are parked to the right of BMW.

Q87. Answer: (d) Neither I nor II is true.

Answer: Option 4. Neither I nor II is true.

I. The statement doesn't in any way imply that depression causes OCD. Rather it is the other way around.

II. It is not necessary that a person having OCD suffers depression. It is only in 86% of such cases that it happens so a generalized statement cannot be made about all people with OCD.

Q88. Answer: (e) neither 1 or 2 follows

The correct answer is option 5.

Since the given statement talks of an order not to let the officers read newspapers during office hours, it implies that reading newspapers during office hours is undesirable. So, I does not follow. Also, it is not possible to determine the impact of this decision on office efficiency. Thus, II also does not follow.

Q89. Answer: (a) Only assumption I is implicit

More and more people are resorting to the use of electric vehicles due to rising fuel prices concludes that the use of electricity for powering cars is much cheaper than conventional fuels.

Hence, the assumption I is implicit.

The economic background of the people resorting to electric vehicles cannot be determined.

Hence, assumption II is not implicit.

Thus only assumption I is implicit.

Q90. Answer: (a) Only I follows.

Answer: Option 1

Solution: The statement clearly suggests that the soil's fertility is damaged and it cannot be used again, so inference I follows. The statement also directly says that the floods and rain were not the only reasons for the damage caused to the soil, but it was rather the use of chemicalized disinfectants, so inference II does not follow.

Q91. Answer: (b) Manager

Given:

Six persons: Akhil, Anuj, Aakash, Anish, Arun, and Ajay

Different posts: Clerk, Manager, Director, Chairman, Vice President, and President

They are ordered as such that the least senior person is at the bottom whereas the senior-most person is at the top.

1) Anish is not the senior-most person but he is senior to Ajay.

2) There are three positions between Arun and Anish.

3)There are two positions between Ajay and Arun.

4) Ajay is a senior to Arun.

5) Neither Aakash nor Arun is the President of the department.

6) Akhil is senior than Aakash.

7) Anuj is not a junior to Anish but he is a senior to Aakash.

The final arrangement is:

Position	Person
President	Anuj
Vice President	Anish
Chairman	Ajay
Director	Akhil
Manager	Aakash
Clerk	Arun

Hence, Aakash is the manager in the department.

Q92. Answer: (e) None of these

Given:

Six persons: Akhil, Anuj, Aakash, Anish, Arun, and Ajay

Different posts: Clerk, Manager, Director, Chairman, Vice President, and President

They are ordered as such that the least senior person is at the bottom whereas the senior-most person is at the top.

1) Anish is not the senior-most person but he is senior to Ajay.

2) There are three positions between Arun and Anish.

3)There are two positions between Ajay and Arun.

4) Ajay is a senior to Arun.

5) Neither Aakash nor Arun is the President of the department.

6) Akhil is senior than Aakash.

7) Anuj is not a junior to Anish but he is a senior to Aakash.

The final arrangement is:

Position	Person
President	Anuj
Vice President	Anish
Chairman	Ajay
Director	Akhil

Manager	Aakash
Clerk	Arun

Thus, Anish, who is senior to Ajay but junior to Anuj is a Vice President.

Hence, none of these is the answer.

Q93. Answer: (e) Anuj

Given:

Six persons: Akhil, Anuj, Aakash, Anish, Arun, and Ajay

Different posts: Clerk, Manager, Director, Chairman, Vice President, and President

They are ordered as such that the least senior person is at the bottom whereas the senior-most person is at the top.

1) Anish is not the senior-most person but he is senior to Ajay.

2) There are three positions between Arun and Anish.

3)There are two positions between Ajay and Arun.

4) Ajay is a senior to Arun.

5) Neither Aakash nor Arun is the President of the department.

6) Akhil is senior than Aakash.

7) Anuj is not a junior to Anish but he is a senior to Aakash.

The final arrangement is:

Position	Person
President	Anuj
Vice President	Anish
Chairman	Ajay
Director	Akhil
Manager	Aakash
Clerk	Arun

If all the person are arranged according to their name in alphabetical order:

Position	Person
President	Aakash
Vice President	Ajay
Chairman	Akhil
Director	Anish
Manager	Anuj
Clerk	Arun

Hence, after rearrangement Anuj will be the fifth most senior person in the department.

Q94. Answer: (a) Ajay

Given:

Six persons: Akhil, Anuj, Aakash, Anish, Arun, and Ajay

Different posts: Clerk, Manager, Director, Chairman, Vice President, and President

They are ordered as such that the least senior person is at the bottom whereas the senior-most person is at the top.

1) Anish is not the senior-most person but he is senior to Ajay.

2) There are three positions between Arun and Anish.

3)There are two positions between Ajay and Arun.

4) Ajay is a senior to Arun.

5) Neither Aakash nor Arun is the President of the department.

6) Akhil is senior than Aakash.

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7) Anuj is not a junior to Anish but he is a senior to Aakash.

The final arrangement is:

Position	Person
President	Anuj
Vice President	Anish
Chairman	Ajay
Director	Akhil
Manager	Aakash
Clerk	Arun

Hence, Ajay is the Chairman in the company.

Q95. Answer: (d) Aakash

Given:

Six persons: Akhil, Anuj, Aakash, Anish, Arun, and Ajay

Different posts: Clerk, Manager, Director, Chairman, Vice President, and President

They are ordered as such that the least senior person is at the bottom whereas the senior-most person is at the top.

1) Anish is not the senior-most person but he is senior to Ajay.

2) There are three positions between Arun and Anish.

3)There are two positions between Ajay and Arun.

4) Ajay is a senior to Arun.

5) Neither Aakash nor Arun is the President of the department.

6) Akhil is senior than Aakash.

7) Anuj is not a junior to Anish but he is a senior to Aakash.

The final arrangement is:

Position	Person
President	Anuj
Vice President	Anish
Chairman	Ajay
Director	Akhil
Manager	Aakash
Clerk	Arun

Hence, Aakash is the manager in the department.

Q96. Answer: (d) Ravish

Persons: Angad, Ramesh,Garvit,Rahul, Mahesh, Ravish and Arjun.

1. Ramesh went to event with TV.

2. Tablet was owned by Garvit.

3. Angad went to the event with Laptop.

Laptop	TV	Tablet
Angad	Ramesh	Garvit

4. Rahul’s gadget is neither same as the gadget of Angad nor of Garvit.

5. Only two people has gadget TV.

6. Mahesh does not have Laptop

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Laptop	TV	Tablet
Angad	Ramesh	Garvit
	Rahul	Mahesh

7. Ravish's Gadget is not same as the gadget of Garvit
8. Arjun's gadget is not same as the gadget of Mahesh.

Laptop	TV	Tablet
Angad	Ramesh	Garvit
Ravish	Rahul	Mahesh
Arjun		

Hence, Ravish has a laptop.

Q97. Answer: (b) Mahesh and Garvit

Persons: Angad, Ramesh,Garvit,Rahul, Mahesh, Ravish and Arjun.

1. Ramesh went to event with TV.
2. Tablet was owned by Garvit.
3. Angad went to the event with Laptop.

Laptop	TV	Tablet
Angad	Ramesh	Garvit

4. Rahul's gadget is neither same as the gadget of Angad nor of Garvit.
5. Only two people has gadget TV.
6. Mahesh does not have Laptop

Laptop	TV	Tablet
Angad	Ramesh	Garvit
	Rahul	Mahesh

7. Ravish's Gadget is not same as the gadget of Garvit
8. Arjun's gadget is not same as the gadget of Mahesh.

Laptop	TV	Tablet
Angad	Ramesh	Garvit
Ravish	Rahul	Mahesh
Arjun		

Hence, Mahesh and Garvit is the correct answer.

Q98. Answer: (d) Ramesh and Rahul

Persons: Angad, Ramesh,Garvit,Rahul, Mahesh, Ravish and Arjun.

1. Ramesh went to event with TV.
2. Tablet was owned by Garvit.
3. Angad went to the event with Laptop.

Laptop	TV	Tablet
Angad	Ramesh	Garvit

4. Rahul's gadget is neither same as the gadget of Angad nor of Garvit.
5. Only two people has gadget TV.
6. Mahesh does not have Laptop

Laptop	TV	Tablet
Angad	Ramesh	Garvit
	Rahul	Mahesh

7. Ravish's Gadget is not same as the gadget of Garvit
8. Arjun's gadget is not same as the gadget of Mahesh.

Laptop	TV	Tablet
Angad	Ramesh	Garvit
Ravish	Rahul	Mahesh
Arjun		

Hence, Ramesh and Rahul is the correct answer.

Q99. Answer: (b) Garvit

Persons: Angad, Ramesh,Garvit,Rahul, Mahesh, Ravish and Arjun.

1. Ramesh went to event with TV.
2. Tablet was owned by Garvit.
3. Angad went to the event with Laptop.

Laptop	TV	Tablet
Angad	Ramesh	Garvit

4. Rahul's gadget is neither same as the gadget of Angad nor of Garvit.
5. Only two people has gadget TV.
6. Mahesh does not have Laptop

Laptop	TV	Tablet
Angad	Ramesh	Garvit
	Rahul	Mahesh

7. Ravish's Gadget is not same as the gadget of Garvit
8. Arjun's gadget is not same as the gadget of Mahesh.

Laptop	TV	Tablet
Angad	Ramesh	Garvit
Ravish	Rahul	Mahesh
Arjun		

Hence, Garvit is the correct answer.

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Q100. Answer: (a) Laptop

Persons: Angad, Ramesh,Garvit,Rahul, Mahesh, Ravish and Arjun.

1. Ramesh went to event with TV.
2. Tablet was owned by Garvit.
3. Angad went to the event with Laptop.

Laptop	TV	Tablet
Angad	Ramesh	Garvit

4. Rahul's gadget is neither same as the gadget of Angad nor of Garvit.
5. Only two people has gadget TV.
6. Mahesh does not have Laptop

Laptop	TV	Tablet
Angad	Ramesh	Garvit
	Rahul	Mahesh

7. Ravish's Gadget is not same as the gadget of Garvit
8. Arjun's gadget is not same as the gadget of Mahesh.

Laptop	TV	Tablet
Angad	Ramesh	Garvit
Ravish	Rahul	Mahesh
Arjun		

Hence, Laptop is the correct answer.

Q101. Answer: (b) 980

The series follows the following pattern:

1320

1320 ÷ 1 = 1320

1320 ÷ 2 = 660

660 ÷ 3 = 220

220 ÷ 4 = 55

55 ÷ 5 = 11

Therefore The wrong number in the given series is 980.

Q102. Answer: (d) 112

The series follows the following pattern:

$17 + 2^3 = 25$

$25 + 3^3 = 52$

$52 + 4^3 = 116$

$116 + 5^3 = 241$

$241 + 6^3 = 457$

Therefore The wrong term in the given series is 112

Q103. Answer: (c) 330

The series follows the following pattern:

$5^3 - 5 = 120$

$6^3 - 6 = 210$

$7^3 - 7 = 336 \neq 330$

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$8^3 - 8 = 504$

$9^3 - 9 = 720$

$10^3 - 10 = 990$

$11^3 - 11 = 1320$

Therefore The wrong term in the series is 330

Q104. Answer: (e) 360

The series follows the following pattern:

$32 \times 0.5 = 16$

$16 \times 1.5 = 24$

$24 \times 2.5 = 60$

$60 \times 3.5 = 210$

$210 \times 4.5 = 945 \neq 360$

Therefore The wrong number in the series is 360.

Q105. Answer: (d) 40

In the given series, 2 series are formed as follows:

$4 \times 4 = 16$

$16 \times 4 = 64 \neq 40$

and

$3 \times 4 = 12$

$12 \times 4 = 48$

Therefore The wrong number in the given series is 40

Q106. Answer: (e) Quantity A = Quantity B or No relation

Quantity A:

S.I. = PRT/100

=> 10800 = (24000 × R × 3)/100

=> R = 15%

Quantity B:

$C.I. = P(1 + r/100)^n - P$

$\Rightarrow 8334 = 16000(1 + r/100)^3 - 16000$

$\Rightarrow 8334 + 16000 = 16000(1 + r/100)^3$

$\Rightarrow 24334 = 16000(1 + r/100)^3$

$\Rightarrow 24334/16000 = (1 + r/100)^3$

$\Rightarrow 12167/8000 = (1 + r/100)^3$

$\Rightarrow 23/20 = 1 + r/100$

$\Rightarrow 23/20 - 1 = r/100$

$\Rightarrow 3/20 = r/100$

$\Rightarrow r = 15\%$

Therefore Quantity A = Quantity B

Q107. Answer: (e) Quantity A = Quantity B or No relation

Quantity A:

Ratio of profit of A and B = 12000 × 12 : 18000 × 6 = 4 : 3

Therefore Profit share of B = 3/7 × 21000 = Rs.9000

Quantity B:

Ratio of profit of B and C = 30000 × 12 : 20000 × 8 = 9 : 4

Therefore Profit share of B = 9/13 × 13000 = Rs.9000

Therefore Quantity A = Quantity B

Q108. Answer: (d) Quantity A > Quantity B

Quantity A:

One day work of A = 1/10

One day work of B = 1/15
One day work of A and B together = 1/10 + 1/15 = 1/6
=> 4 day work of A and B together = 4/6 = 2/3
Remaining work after 4 days = 1 - 2/3 = 1/3
Remaining work will be completed by B in (1/3)/(1/15) = 5 days
Therefore The total work will be completed in 4 + 5 = 9 days
Quantity B:
One day work of P = 1/15
One day work of Q = 1/25
One day work of P and Q together = 1/15 + 1/25 = 8/75
=> 5 day work of P and Q together = 5 × 8/75 = 8/15
Remaining work = 1 - 8/15 = 7/15
Therefore Remaining work will be done by P in (7/15)/(1/15) = 7 days.
Therefore Quantity A > Quantity B

Q109. Answer: (c) Quantity A < Quantity B

Quantity A:
598 ÷ 23 + √144 = √x + 288 ÷ 16
=> 26 + 12 = √x + 18
=> √x = 26 + 12 - 18
=> √x = 20
=> x = 400
Quantity B:
2378 – 542 + 642 = 3x + 80 × 15
=> 2478 = 3x + 1200
=> 3x = 1278
=> x = 426
Therefore Quantity A < Quantity B

Q110. Answer: (c) Quantity A < Quantity B

Quantity A:
According to the question:
MP × 90/100 = CP × 120/100
=> 3 × MP = 4 × CP
=> 3 × 12000 = 4 × CP
=> CP = Rs.9000
Quantity B
CP = 10800 × 100/112.5
=> CP = Rs.9600
Therefore Quantity A < Qunatity B

Q111. Answer: (c) Rs. 3500

The total interest for 2 years = Rs.252
=> The total interest for 1 year = Rs.126
Given: Rate of interest = 3%
The interest that A receives from B for 1 year = 700 × 3/100 = Rs.21
=> The interest that A receives from C for 1 year = 126 - 21 = Rs.105
The amount that A gave to C = (100 × I)/RN,
where I = Interest
R = Rate of interest
N = Number of years
Therefore The amount that A gave to C = (100 × 105)/(3 × 1) = Rs.3500

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Q112. Answer: (c) 1 : 2

GIVEN :

Milk and water are mixed in vessel A in the ratio of 3 : 7.

Therefore quantity of milk = 3/10

Milk and water are mixed in vessel B in the ratio of 5 : 7

Therefore quantity of milk = 5/12

These two are mixed together to get milk and water in ratio 17 : 28

Quantity of milk in mixture = 17/45

CONCEPT :

Replacement of Mixtures.

ASSUMPTION :

Let the ratio from vessel A be ‘a’.

Therefore Ratio from vessel B = 1 – a

CALCULATION :

Therefore 3/10a + 5/12(1 - a) = 17/45; => 3a/10 + 5/12 - 5a/12 = 17/45; => 5/12 - 17/45 = 7a/60; => 7/180 = 7a/60

=> a = 1/3

Ratio for vessel B = 1 – a = 2/3

Therefore Ratio of quantities from vessel A and vessel B = 1/3:2/3

= 1 : 2

Q113. Answer: (e) 420 km

Let ‘s’ be the speed of the person and ‘t’ be the time taken by the person to cover the distance between X and Y.

If his speed were increase by 10 km/h, it would have been taken one hour lesser or cover the distance.

=> st = (s+10) (t – 1)

=> st = st – s + 10t – 10

=> 10t – s = 10 ---- (1)

It would have taken further 45 minutes lesser if the speed was further increased by 10 km/h.

=> st = (s + 20)(t - 13/4)

=> st = st - 7/4 s + 20t - 35

=> 20t - 7/4 s = 35

=> 80t - 7s = 140 ---- (2)

Multiply (1) by 7

70t – 7s = 70 ---- (3)

From (2) and (3)

10t = 70

=> t = 7 hours

Put this value of t in (1)

10 × 7 – s = 10

=> s = 60 km/hr

Distance = st = 60 × 7 = 420 km

Q114. Answer: (e) 182 cm

Given:

Area of the triangle = 14196 cm^2

Ratio of height and base of the triangle = 6 : 7

Formula used:

Area of triangle = 1/2 × base × height

Calculation:

Let the height of the triangle be 6x and the base of the triangle be 7x.

Area of triangle = 1/2 × base × height

=> 14196 = 1/2 × 7x × 6x

=> 14196 = $21x^2$

=> $x^2 = 676$

=> $x = 26$

Therefore The base of the triangle = $7x = 7 \times 26 = 182$ cm

Q115. Answer: (c) 10 cm

Curved surface area of a cylinder is 440 sq cm. Circumference of its base is 44 cm.

So, $2\pi r = 44$

=> $r = 44 \times ½ \times (7/22)$

=> $r = 7$

So, the radius of the cylinder = 7 cm.

We know,

Curved surface area of cylinder = $2\pi rh$

So, $2\pi rh = 440$

=> $2 \times (22/7) \times 7 \times h = 440$

=> $h = 440/44$

=> $h = 10$ cm

Therefore The height of the cylinder is 10 cm

Q116. Answer: (d) Rs. 42

Total expenditure for 10 days = 45×10 = Rs.450

Total expenditure for first 3 days = 52×3 = Rs.156

Expenditure for last 7 days = 450 - 156 = 294

Therefore The average expenditure for the remaining 7 days = 294/7 = Rs.42

Q117. Answer: (b) 36 days

GIVEN :

5 men, 6 women and 4 children can complete a work in 10 days.

6 women and 6 children can do it in 20 days.

2 men and 6 women can do it in 18 days.

ASSUMPTION :

Let, a man’s efficiency = x/day

A woman’s efficiency = y/day

A child's efficiency = z/day

CALCULATION :

=> $5x + 6y + 4z = 1/10$ ----(1)

=> $6y + 6z = 1/20$ ----(2)

=> $2x + 6y = 1/18$ ----(3)

From (1) - (2) we get,

=> $5x - 2z = 1/10 - 1/20$

=> $5x - 2z = 1/20$ ----(4)

From (1) - (3) we get,

=> $3x + 4z = 1/10 - 1/18$

=> $3x + 4z = 2/45$ ----(5)

From (4) and (3) we get,

=> $x = 1/90$

Putting the value of x in (3),

=> $2/90 + 6y = 1/18$

=> $y = 1/180$

Let, 2 men and 1 woman can complete the work in = a days

According to problem,

=> $2/90 + 1/180 = 1/a$

=> $1/a = 5/180$

=> $a = 36$

Therefore 2 men and 1 woman can complete the work in 36 days.

Q118. Answer: (d) 40 minutes

Let the leak empty the tank in h minutes.
Therefore In 1 min, it empties 1/h part.
Given, two pipes can fill a tank in 12 min and 24 min respectively
1 min, they can fill 1/12 and 1/24 part respectively.
Thus, working together, in 1 min part of tank they can fill = 1/12 + 1/24 = 1/8
Therefore They can fill the tank in 8 min.
Now due to the leak it took 2 min more.
Thus, the tank was filled in 10 min.
In 1min, part of tank filled = 1/10
=> 1/8 - 1/h = 1/10
=> 1/8 - 1/10 = 1/h
=> h = 40 min

Q119. Answer: (c) 72 years

Let the present ages of A and B be X and Y. Then, according to the question:
=> X/Y = 4/5
=> 5X = 4Y ….(1)
From the present age ratio, it is clear that B is elder than A. Since the age diff. is 8 yrs. Thus,
=> Y – X = 8 …(2)
Solving above two equations we get,
=> X = 32 years & Y = 40 years
Thus, the sum of their present age = X + Y
The sum of their present age will be 72 years

Q120. Answer: (e) 5 : 2

Let the income of A and B be 5x, 4x respectively
Let the Expenditure of A and B be 2y, 1y respectively
Therefore Savings of A = 5x - 2y
Therefore Savings of B = 4x - y
As the savings of both are equal
=> 5x - 2y = 4x - y
=> x = y
Therefore Ratio between income and expenditure of A = 5x/2y = 5 : 2

Q121. Answer: (d) 75%

Number of car sold by A in 2015,2016 and 2019 = 150 + 100 + 200 = 450
Number of car sold by B in 2014 and 2017 = 250 + 350 = 600
Required Percentage = 450/600 × 100 = 75%

Q122. Answer: (e) 50%

Number of car sold by B in 2016 and 2018 = 275 + 325 = 600
Number of car sold by A in 2017 and 2019 = 200 + 200 = 400
Required Percentage = (600 - 400)/400 × 100 = 50%

Q123. Answer: (c) 1 : 2

Number of car sold by A in 2015, 2016 and 2017 = 150 + 100 + 200 = 450
Number of car sold by B in 2014, 2015 and 2017 = 250 + 300 +350 = 900
Required Ratio = 450/3 : 900/3 = 1 : 2

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Q124. Answer: (b) 25%

Total number of cars sold in the year 2016 = 375

Total number of cars sold in the year 2018 = 500

Required percentage = (500 - 375)/500 × 100 = 25%

Q125. Answer: (b) 950

Number of car A sold in all the years = 125 + 150 + 100 + 200 + 175 + 200 = 950

Number of car B sold in all the years = 250 + 300 + 275 + 350 + 325 + 400 = 1900

Required Difference = 1900 - 950 = 950

Q126. Answer: (c) 72 days

GIVEN :

A and B together can do a piece of work in 36/5 days.

B and C together can do a piece of work in 72/7 days.

A, B and C together can do a piece of work in 9/2 days.

CALCULATION :

=> One day work of (A + B) = 5/36

=> One day work of (B + C) = 7/72

=> One day work of (A + B + C) = 2/9

One day work A = One day work of (A + B + C) - One day work work of (B + C)

=> 2/9 - 7/72

=> 1/8

One day work of C = One day work of (A + B + C) - One day work work of (A + B)

=> 2/9 - 5/36

=> 1/12

One day work of (A + C) = 1/8 + 1/12 = 5/24

One day work of B = One day work of (A + B + C) - One day work work of (A + C)

=> 2/9 - 5/24

=> 1/72

Therefore B alone can complete the work in 72 days.

Q127. Answer: (e) Rs. 4320

Given:

A and B invested in the ratio 3 : 5.

A left the business after 8 months.

The profit share of B at the end of the year = Rs.7200

Calculation:

The ratio of profit share of A and B = 3 × 8 : 5 × 12 = 24 : 60

Let the profit share of A be 24x and the profit share of B be 60x.

According to question:

60x = 7200

=> x = 120

=> The profit share of A = 24x = 24 × 120 = Rs.2880

Therefore The difference of the profit share of A and B = 7200 - 2880 = Rs.4320

Q128. Answer: (b) 8%

GIVEN :

A person invested Rs.46875 at compound interest for 3 years.

The interest received at the end of 3 years is Rs.12174.

FORMULA USED :

C.I. = $P(1 + r/100)^n - P$

Where,

C.I. = Compound Interest

P = Principal
r = rate of interest
n = number of years
CALCULATION :
C.I. = P(1 + r/100)n - P
=> 12174 = 46875(1 + r/100)³ - 46875
=> 12174 + 46875 = 46875(1 + r/100)³
=> 59049 = 46875(1 + r/100)³
=> 19683/15625 = (1 + r/100)3
=> 27/25 = 1 + r/100
=> 27/25 - 1 = r/100
=> 2/25 = r/100
=> r = 8%

Q129. Answer: (c) Rs. 6000

Given:
Profit on camera = Rs.1200
Profit on lens = 25%
Overall profit = Rs.2700
Calculation:
Profit on lens = Overall profit - Profit on camera
=> 2700 - 1200
=> Rs.1500
According to question:
25% of C.P. of lens = Rs.1500
=> 100% of C.P. of lens = 100/25 × 1500 = Rs.6000
Therefore The cost price of the lens is Rs.6000

Q130. Answer: (b) 10 km/hr

Speed with the stream is the speed of the boat downstream, and speed against the stream is the Speed of the boat upstream.
Let the Speed of the boat downstream be ‘a’ km/hr and Speed of the boat upstream be ‘b’ km/hr.
Let the distance travelled upstream be ‘d’ km.
We know that,
Time = Distance/Speed
Time upstream = d / b = 4.5 (Because 1 hr = 60 min)
=> d = 4.5b
Time downstream = d / a = 3
=> d = 3a
Equating,
3a = 4.5b
=> a = 1.5b
We know that,
Speed of the stream = ½ (Speed of the boat downstream- Speed of the boat upstream)
=> 2 = ½ (a - b)
=> 4 = a - b
=> 4 = 1.5b - b
=> 0.5 b = 4
=> b = 8 km/hr
=> a = 1.5(8) = 12 km/hr
We know that,
Speed of boat in still water = ½ (Speed of the boat downstream+ Speed of the boat upstream)
=> Speed of boat in still water = ½ (12 + 8) = ½ (20) = 10 km/hr

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Therefore Speed of boat in still water = 10 km/hr

Q131. Answer: (e) Either x = y or Relationship between x and y cannot be established.

I. 12x2 – 7x + 1 = 0
=> $12x^2 - 4x - 3x + 1 = 0$
=> $4x(3x - 1) -1(3x - 1) = 0$
=> $(3x - 1)(4x - 1) = 0$
=> x = 1/3 or x = 1/4
II. 12y2 – 11y + 2 = 0
=> $12y^2 - 8y - 3y + 2 = 0$
=> $4y(3y - 2) - 1(3y - 2) = 0$
=> $(4y - 1)(3y - 2) = 0$
=> y = 1/4 or y = 2/3
If x = 1/3 and y = 1/4, x > y
If x = 1/3 and y = 2/3, x < y
If x = 1/4 and y = 1/4, x = y
If x = 1/4 and y = 2/3, x < y
Hence, Either x = y or relationship cannot be established.

Q132. Answer: (e) Either x = y or Relationship between x and y cannot be established.

I. 2x2 – 9x + 4 = 0
=> $2x^2 - 8x - x + 4 = 0$
=> $2x(x - 4) -1(x - 4) = 0$
=> $(2x - 1)(x - 4) = 0$
=> x = 1/2 or x = 4
II. 3y2 – 4y + 1 = 0
=> $3y^2 - 3y - y + 1 = 0$
=> $3y(y - 1) -1(y - 1) = 0$
=> $(3y - 1)(y - 1) = 0$
=> y = 1/3 or y = 1
If x = 1/2 and y = 1/3, x > y
If x = 1/2 and y = 1, x < y
If x = 4 and y = 1/3, x > y
If x = 4 and y = 1, x > y
Hence, Relationship cannot be established.

Q133. Answer: (c) x ≥ y

I. $\sqrt{(x-4)} = 2$
=> x - 4 = 4
=> x = 4 + 4
=> x = 8
II. (y – 5)2 = 9
=> y - 5 = 3 or y - 5 = -3
Taking y - 5 = 3
y = 3 + 5 = 8
Taking y - 5 = -3
y = -3 + 5 = 2
If x = 8 and y = 8, x = y
If x = 8 and y = 2, x > y
Hence, x ≥ y

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Q134. Answer: (c) x ≥ y

I. x2 – 6x + 8 = 0
=> x² - 4x - 2x + 8 = 0
=> x(x - 4) -2(x - 4) = 0
=> (x - 2)(x - 4) = 0
=> x = 2 or x = 4
II. 2y2 – 7y + 6 = 0
=> 2y² - 4y - 3y + 6 = 0
=> 2y(y - 2) -3(y - 2) = 0
=> (2y - 3)(y - 2) = 0
=> y = 3/2 or y = 2
If x = 2 and y = 3/2, x > y
If x = 2 and y = 2, x = y
If x = 4 and y = 3/2, x > y
if x = 4 and y = 2, x > y
Hence, x ≥ y

Q135. Answer: (a) x > y

I. x2 – 18x + 77 = 0
=> x² - 11x - 7x + 77 = 0
=> x(x - 11) - 7(x - 11) = 0
=> (x - 7)(x - 11) = 0
=> x = 7 or x = 11
II. y2 – 11y + 30 = 0
=> y² - 6y - 5y + 30 = 0
=> y(y - 6) - 5(y - 6) = 0
=> (y - 5)(y - 6) = 0
=> y = 5 or y = 6
If x = 7 and y = 5, x > y
if x = 7 and y = 6, x > y
If x = 11 and y = 5, x > y
If x = 11 and y = 6, x > y
Hence, x > y

Q136. Answer: (a) 67 km/hour

Given speed of slower train V1 = 45 km/h
Let the speed of faster train V2 = V km/h
Since both the trains are moving in parallel direction.
Therefore Relative speed = V2 – V1 = V – 45
Therefore To cross a man in the smaller train longer train has to cross it's own length with relative speed
Time taken to cross the 110 m length = 18 s
Speed = Distance/Time
=> (V – 45) × (1000/3600) = 110/18 (since 1 km/h = (1000/3600) m/s)
=> V – 45 = (110/18) × (3600/1000) [(3600/1000) m/s = 1 km/h]
=> V – 45 = 22
=> V = 67 km/h
Therefore Speed of longer train = 67 km/h

Q137. Answer: (d) Rs. 3310

Given:
At compound interest:
Principal = Rs. 4000
Time period = 3 years

Rate of interest = 10% per annum
Formula used:
Simple Interest = (Principal × Rate × Time)/100
Compound Interest = Principal[(1 + Rate/100)^n – 1]
Calculation:
C.I. = P(1 + r/100)^n - P
=> C.I. = 4000(1 + 10/100)^3 - 4000
=> C.I. = 4000 × (1.1)^3 - 4000
=> C.I. = 5324 - 4000
=> C.I. = Rs.1324
Now,
S.I. = PRT/100
=> 1324 = (P × 10 × 4)/100
=> P = (1324 × 100)/(10 × 4)
=> P = Rs.3310
Therefore The required answer is Rs. 3310.

Q138. Answer: (a) 6 hours

Let the speed of bus be x km/hr.
Then, the speed of car = 1.5x = 60 km/hr
Therefore x = 60/1.5 = 40 km/hr
Therefore, speed of bus = 40 km/hr
Now, time taken by car to cover 720 km = 720/ 60 = 12 hr
Time taken by bus to cover 720 km = 720/ 40 = 18 hr
Thus, difference in the time taken by the bus and the time taken by the car to cover 720 km = (18 – 12) hr = 6 hr.

Q139. Answer: (d) 15 days

Let men, women and children be denoted by M, w and C.
9M + 6W + 6C = 8 ------(1)
16W + 6C = 10 ------(2)
6M + 10W = 10 ------(3)
Comparing equation 2 and 3
16W + 6C = 6M + 10W
=> 6W = 6M - 6C
=> 6M = 6W + 6C
=> M = W + C ------(4)
By equation 1 and equation 3
[9M + 6(W + C)] × 8 = (6M + 10W) × 10
=> (9M + 6M) × 8 = (6M + 10W) × 10
=> 120M = 60M + 100W
=> 60M = 100W
=> 3M = 5W ------(4)
Using equation 3 and equation 4
2 men and 10 women will complete the same work in:
[(6M + 10W) × 10]/(2M + 10W)
=> [(6M + 6M) × 10]/(2M + 6M)
=> 120M/8M
=> 15 days

Q140. Answer: (c) Rs. 57400

Let the incomes of A, B and C be 7x, 9x and 10x respectively.
=> 7x + 9x + 10x = 0.8 × 130000
=> x = 104000/26 = 4000

Let their respective savings be 21y, 27y and 32y respectively.
=> 21y + 27y + 32y = Rs. 16,000
=> y = 16000/80 = 200
We know that,
Income = Expenditure + Savings
=> Total expenditure for A and C = (7 × 4000 – 21 × 200) + (10 × 4000 – 32 × 200) = Rs. 57,400
Therefore Total expenditure for A and C = Rs. 57,400

Q141. Answer: (e) Rs. 1240

Given:
If we solve the caselet step by step, we get the following output.

Product	Cost price	Selling price	Marked price	Profit(SP - CP)	Profit %	Discount %
A	1500	1800	2250	300	20	20
B	2000	2160	2400	160		10
C	1700	2210	2600	510	30	15
D	3000	3450	4000	450	15	

Formula used:
Profit% = (Profit/Cost price) × 100
Discount% = (Discount/Marked Price) × 100
Calculation:
The selling price of product C = Rs. 2210
The selling price of product D = Rs. 3450
Difference = 3450 – 2210
=> Rs. 1240
Therefore The difference is Rs. 1240.

Q142. Answer: (b) Rs. 1420

If we solve the caselet step by step, we get the following output.

Product	Cost price	Selling price	Marked price	Profit(SP - CP)	Profit %	Discount %
A	1500	1800	2250	300	20	20
B	2000	2160	2400	160		10
C	1700	2210	2600	510	30	15
D	3000	3450	4000	450	15	

Total profit earned = 300 + 160 + 510 + 450
=> Rs. 1420

Q143. Answer: (c) 13.75%

If we solve the case let step by step, we get the following output.

Product	Cost price	Selling price	Marked price	Profit(SP - CP)	Profit %	Discount %
A	1500	1800	2250	300	20	20
B	2000	2160	2400	160		10
C	1700	2210	2600	510	30	15
D	3000	3450	4000	450	15	

Discount % offered on product D = (Discount / MP) × 100
550 ÷ 4000 × 100
=> 13.75%

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Q144. Answer: (a) Rs. 3200

If we solve the caselet step by step, we get the following output.

Product	Cost price	Selling price	Marked price	Profit(SP - CP)	Profit %	Discount %
A	1500	1800	2250	300	20	20
B	2000	2160	2400	160		10
C	1700	2210	2600	510	30	15
D	3000	3450	4000	450	15	

Selling price of product B = Rs. 2160

Selling price of product E = 2160 + 100/900 × 2160

=> 2160 + 240

=> 2400

Because It has been given two successive discounts of 10% and 16.67%

=> 0.9 × 0.833 × Marked price = 2400

=> Marked price = 2400 ÷ 0.75

=> Marked price = Rs. 3200

Q145. Answer: (b) Rs. 1530

If we solve the caselet step by step, we get the following output.

Product	Cost price	Selling price	Marked price	Profit(SP - CP)	Profit %	Discount %
A	1500	1800	2250	300	20	20
B	2000	2160	2400	160		10
C	1700	2210	2600	510	30	15
D	3000	3450	4000	450	15	

Cost price of product C = Rs. 1700

If it is sold at a loss of 10%

Selling price = 0.9 × 1700

=> Rs. 1530

Q146. Answer: (e) 13 : 22

12% of consumer of company C = 12/100 × 30/100 × 4500 = 162.

Numbers of consumers of company A initially = 12/100 × 4500 = 540.

Number of consumers of company A after 12% of consumers of company C shift to company A = 540 + 162 = 702.

Number of consumers of company C initially = 30/100 × 4500 = 1350

Number of consumers of company C after 12% of consumers of company C shift to company A = 1350 - 162 = 1188

Therefore The required ratio = 702 : 1188 = 78 : 132 = 13 : 22

Q147. Answer: (a) 54%

Total consumers of company E and D together = (18 + 17)% of 4500

=> 35% of 4500

=> 35/100 × 4500

=> 1575

Total consumers of company A, B and C together = (12 + 23 + 30)% of 4500

=> 65% of 4500

=> 65/100 × 4500

=> 2925

Therefore Required percentage = 1575/2925 × 100 = 53.84% ≈ 54%.

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Q148. Answer: (b) 858

Total number of consumers of company D when 10% consumers shift to company B = (100 - 10)/100 × 18/100 × 4500.
=> 90/100 × 18/100 × 4500
=> 729
Total number of consumers of company C when 20% consumers shift to company A = (100 - 20)/100 × 30/100 × 4500.
=> 80/100 × 30/100 × 4500
=> 1080
Total number of consumers of company E = 17/100 × 4500 = 765
Therefore The required average = (729 + 765 + 1080)/3 = 858

Q149. Answer: (d) 855

Number of consumers of company B = 23/100 × 4500 = 1035
Number of consumers of company A initially = 12/100 × 4500 = 540
Number of consumers of company C initially = 30/100 × 4500 = 1350
Given: All the consumers from company B shift to company A and C in the ratio of 11 : 12.
Number of consumers that shift to company A from company B = 11/23 × 1035 = 495
=> Number of consumers of company A finally = 540 + 495 = 1035
Number of consumers that shift to company C from company B = 12/23 × 1035 = 540
=> Number of consumers of company C finally = 1350 + 540 = 1890
Therefore The required difference = 1890 - 1035 = 855.

Q150. Answer: (e) 235

Number of consumers of company C = 30/100 × 4500 = 1350
When 230 consumers shift from company C to E, the number of consumers of company C = 1350 - 230 = 1120
Number of consumers of company B = 23/100 × 4500 = 1035
Let x consumers shift from company B to company D.
When x consumers shift from company B to D, the number of consumers of company B = 1035 - x
According to question:
1120/(1035 - x) = 7/5
=> 5600 = 7245 - 7x
=> 7x = 7245 - 5600
=> 7x = 1645
=> x = 235
Therefore The number of consumers that shifted from company B is 235

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