SSC CHSL 2020 Official Paper 12 (Held On: 16 April 2021 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the most appropriate one-word substitution for the given words.

a seven-sided figure

(a) octagon
(b) pentagon
(c) heptagon
(d) hexagon

Q2. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. No version of the origin of California's name has been fully accepted, but there is wide support for the contention that it derived from an early 16th-century Spanish novel.

B. California is a constituent state of the United States of America.

C. It was admitted as the 31st state of the union on 9 September 1850 and by the early 1960s it was the most populous U.S. state.

D. The influence of the Spanish settlers of the 18th and 19th centuries is evident in California's architecture and place-names.

(a) DACB
(b) BCAD
(c) ADCB
(d) BACD

Q3. Select the INCORRECTLY spelt word.

(a) Architect
(b) Facsinate
(c) Obscene
(d) Abscess

Q4. Select the most appropriate synonym of the given word.

DIVULGE

(a) Suppress
(b) conceal
(c) decide
(d) reveal

Q5. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Kunal did not anticipate the need, so he did not carries his own water bottle.

(a) so he does not carry his own
(b) so he did not carry his own

(c) so he did not carried his own
(d) No substitution required

Q6. Select the most appropriate word to fill in the blank.

The team leader asked for a _____ report to be given, in not more than one page.

(a) complex
(b) compound
(c) curt
(d) concise

Q7. Select the most appropriate synonym of the given word.

Novice

(a) Expert
(b) Beginner
(c) Adept
(d) Silent

Q8. Select the option that expresses the given sentence in direct speech.

They said that they would issue the certificate the following week

(a) They said, “They are issuing the certificate the next week.”
(b) They said, “We will issue the certificate next week.”
(c) They said, “Could we issue the certificate the following week?”
(d) They said, “They issued the certificate the following week.”

Q9. Select the most appropriate meaning of the given idiom.

A sea change

(a) Going on a trip abroad
(b) Complete transformation
(c) Health-related vacation
(d) Getting transferred overseas

Q10. Fill in the blank with most appropriate word.

I am sorry to _____ on you at this late hour.

(a) interrupt
(b) instruct
(c) interfere
(d) intrude

Q11. Select the correct passive form of the given sentence.

The poor washerwoman washes dirty clothes from morning to evening.

(a) Dirty clothes have been washed by the poor washerwoman from morning to evening.
(b) Dirty clothes were washed by the poor washerwoman from morning to evening.
(c) Dirty clothes are washed by the poor washerwoman from morning to evening.
(d) Dirty clothes are being washed by the poor washerwoman from morning to evening.

Q12. In the given sentence, identify the segment which contains a grammatical error.

Where did you kept the sack of wheat that I bought from the market?

(a) Where did you kept
(b) the sack of wheat
(c) from the market
(d) that I bought

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Q13. Select the most appropriate antonym of the given word.

SPURIOUS

(a) genuine
(b) counterfeit
(c) artificial
(d) phony

Q14. Select the option that can be used as a one-word substitute for the given group of words.

A close-fitting cover for the blade of a knife or sword

(a) carrier
(b) case
(c) sheath
(d) Shield

Q15. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

There was a bell over the door that jingled whenever a customer entered

(a) which jingled wherever
(b) who jingles whenever
(c) that jingle when
(d) No substitution

Q16. Given below are four sentences in jumbled order. Select the option that gives their correct order.

A. In such places, strong winds blow raising heaps of sand.

B. Some deserts are almost totally without water.

C. These dunes shift and move endlessly across the desert.

D. This sand is deposited in huge mounds called 'sand dunes'.

(a) BACD
(b) DCBA
(c) BADC
(d) DACB

Q17. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

Pavan returned back home / when he completed / his assignment abroad

(a) his assignment abroad
(b) Pavan returned back home
(c) when he completed
(d) No error

Q18. Select the most appropriate meaning of the underlined idiom in the given sentence.

Terrorists kill thousands of innocent people in cold blood.

(a) in mountainous areas
(b) accidentally
(c) cruelly, without any emotions
(d) by freezing to death

Q19. Select the most appropriate antonym of the given word.

Hazy

(a) Faint
(b) Clear
(c) Soft
(d) Dim

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Q20. Select the misspelt word.

(a) cruel
(b) coarse
(c) junior
(d) brutle

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 blank.

I had the train compartment to myself up to Rohana and then a girl got in. The couple who saw her off were (1)____ her parents. They seemed very anxious (2)__ her comfort and gave the girl (3)__ instructions as to where to keep (4)__ things, when not to lean out and how to (5)____ speaking to strangers.

Q21. Select the most appropriate option to fill in the blank no. 1

(a) probably
(b) absolutely
(c) exactly
(d) likely

Q22. Select the most appropriate option to fill in the blank no. 2

(a) about
(b) during
(c) with
(d) over

Q23. Select the most appropriate option to fill in the blank no. 3.

(a) concise
(b) general
(c) detailed
(d) unspecified

Q24. Select the most appropriate option to fill in the blank no. 4.

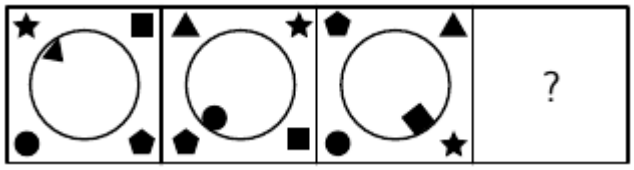
(a) his
(b) our
(c) her
(d) their

Q25. Select the most appropriate option to fill in the blank no. 5.

(a) reject
(b) avoid
(c) protect
(d) protest

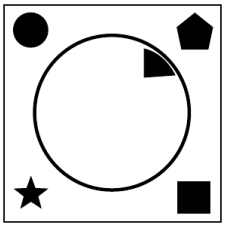
GENERAL INTELLIGENCE

Q26. Select the figure from among the given options that can replace the question mark (?) in the following series.

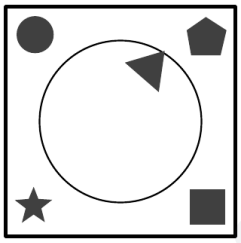


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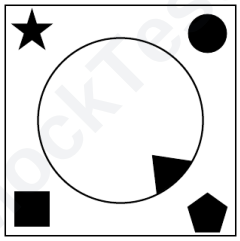
(a)



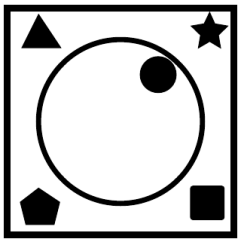
(b)



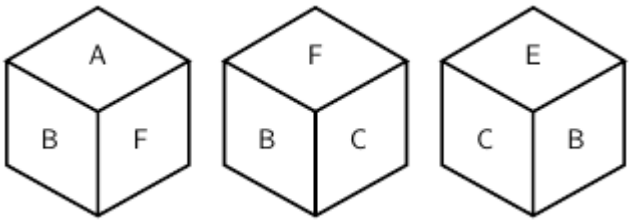
(c)



(d)



Q27. Three different positions of the same dice are shown. Select the letter that will be on the face opposite to the face having E.



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

Q28. Revati is the sister of Sujit. Pranjal's mother is married to Sujit. Bhavita has one son and one daughter. Lopa is the sister of Pranjal, who is the paternal grandson of Bhavita. Lopa is the daughter of Ramya. How is Revati related to Ramya?

(a) Daughter
(b) Husband's sister
(c) Brother's wife
(d) Sister

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Q29. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) PMJG
(b) USPL
(c) YWTP
(d) MKHD

Q30. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

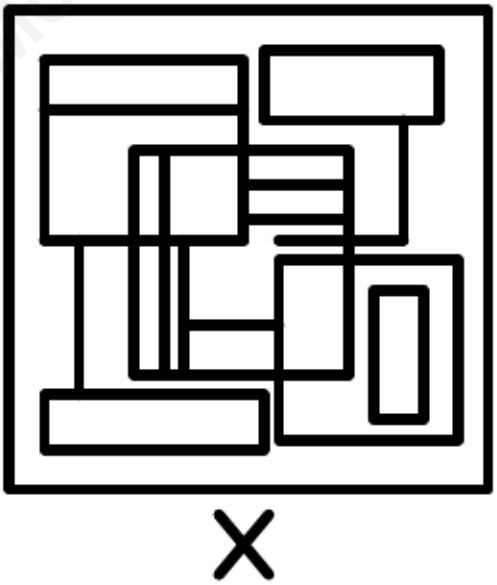
263 : 271

(a) 261 : 267
(b) 23 : 293
(c) 223 : 233
(d) 317 : 337

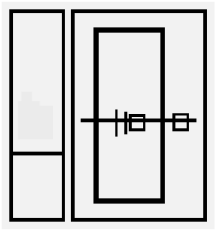
Q31. Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different.

(a) 198
(b) 177
(c) 132
(d) 165

Q32. Select the option figure which is NOT embedded in figure X as its part (rotation is NOT allowed).

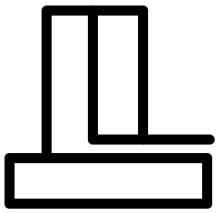


(a)

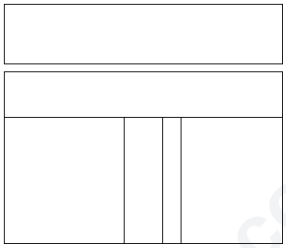


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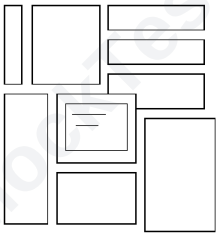
(b)



(c)



(d)



Q33. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Deceive
2. Deceptive
3. Decapitate
4. Decency
5. Decamp

(a) 3, 2, 1, 5, 4
(b) 4, 2, 1, 3, 5
(c) 5, 3, 1, 2, 4
(d) 5, 3, 1, 4, 2

Q34. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some pins are roses.

No rose is a machine.

Conclusions:

I. Some roses are pins.

II. Some pins are not machines.

III. All machines are pins.

(a) Only conclusion II follows
(b) Only conclusions I and II follow
(c) Only conclusion I follows
(d) Only conclusions I and III follow

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Q35. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

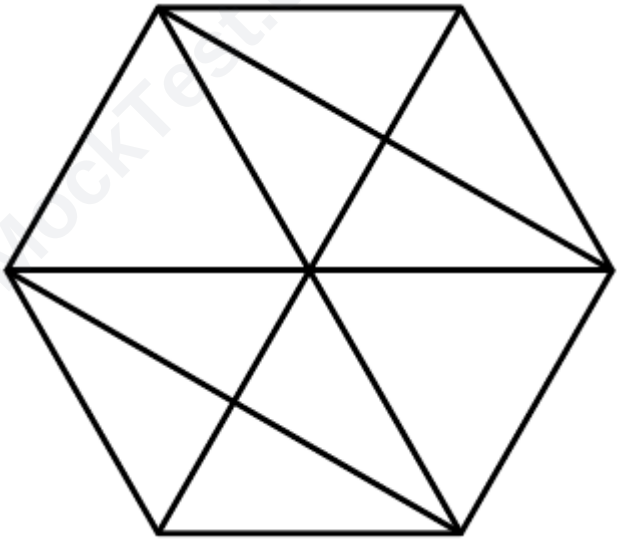
r r p p s _ p _ s s r _ s s r _ _ p

(a) p r p p s
(b) s s r p p
(c) s p r r p
(d) s r r s p

Q36. In a certain code language, LIABILITY is coded as 141 and OFFICIATE is coded as 166. How will STATUTORY be coded in that language?

(a) 156
(b) 159
(c) 87
(d) 81

Q37. How many triangles are there in the given figure?



(a) 29
(b) 25
(c) 22
(d) 26

Q38. Select the number that can replace the question mark (?) in the following series.

14, 28, 31, 124, 129, ?

(a) 666
(b) 644
(c) 774
(d) 447

Q39. A father's age at the time of the birth of his son is the same as the present age of the son. If the age of the son was 15 years five years ago, then what is the current age of the father?

(a) 40 years
(b) 35 years
(c) 30 years
(d) 45 years

Q40. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

UDM : YZQ :: QCT : ?

(a) VZN

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(b) UYK
(c) UYX
(d) YGZ

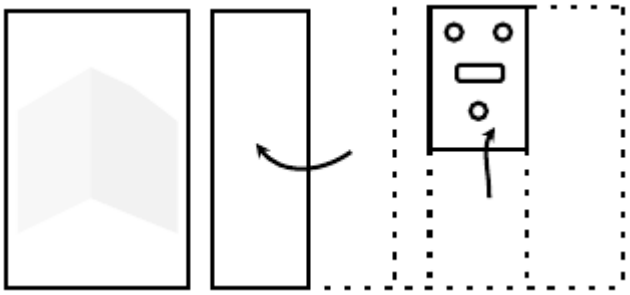
Q41. Select the option in which the numbers share the same relationship as that shared by the numbers in the given set.
(850, 645, 410)
(a) (751, 396, 544)
(b) (558, 256, 356)
(c) (440, 229, 422)
(d) (550, 402, 135)

Q42. Select the option in which the numbers are related in the same way as are the numbers of the following set.
122 : 340 : 726
(a) 2194 : 3372 : 4910
(b) 2199 : 3377 : 4915
(c) 1951 : 3084 : 4217
(d) 1886 : 3068 : 4606

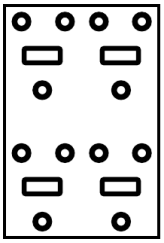
Q43. 'Guitar' is related to 'Music Instrument' in the same way as 'Car' is related to '_____'.
(a) Road
(b) Petrol
(c) Vehicle
(d) Driver

Q44. Three of the following four words are alike in a certain way and one is different. Select the odd one
(a) Applaud
(b) Criticize
(c) Honour
(d) Admire

Q45. A piece of paper is folded and cut as shown below in the question figures. Select from the given answer figures, how it will appear when unfolded.

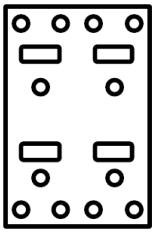


(a)

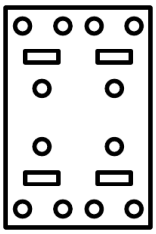


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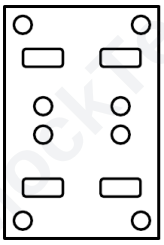
(b)



(c)



(d)

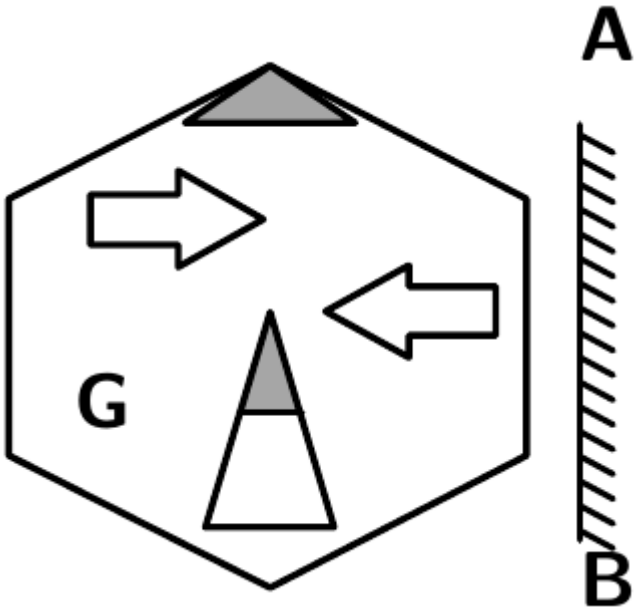


Q46. Select the option in which the words share the same relationship as that shared by the given pair of words.

Rat : Rodent

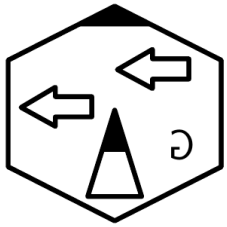
(a) Whale : Shark
(b) Frog : Reptile
(c) Cattle : Cow
(d) Ostrich : Bird

Q47. Select the correct mirror image of the given figure when a mirror is placed on the right side of the figure.

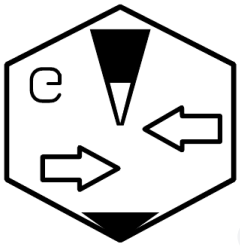


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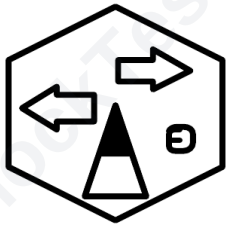
(a)



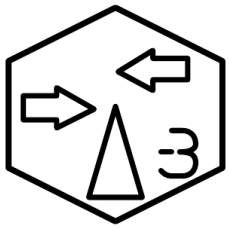
(b)



(c)



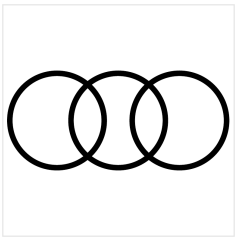
(d)



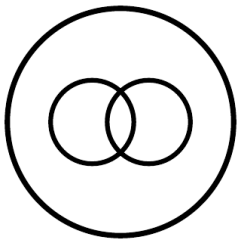
Q48. Select the Venn diagram that best represents the relationship between the following classes.

Father, Men, Uncle

(a)

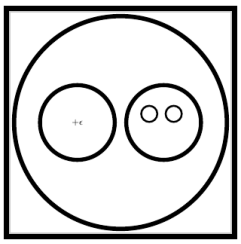


(b)

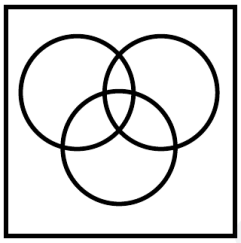


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(c)



(d)



Q49. Select the correct combination of mathematical signs to sequentially replace the * signs to balance the following equation.

40 * 5 * 7 * 24 * 6 * 38

(a) +, ×, ÷, -, =
(b) ÷, -, ×, +, =
(c) ÷, ×, -, +, =
(d) +, ×, -, ÷, =

Q50. In a code language, CANDLE is written as FMEOBD. How will FIXING be written in that language?

(a) HOJYJG
(b) FOKYKG
(c) HPJWJG
(d) HOJYKH

QUANTITATIVE APTITUDE

Q51. Two wrist watches were sold for Rs. 1,980 each. One wrist watch was sold at a profit of 10% and the other one at a loss of 10%, The entire transaction resulted in:

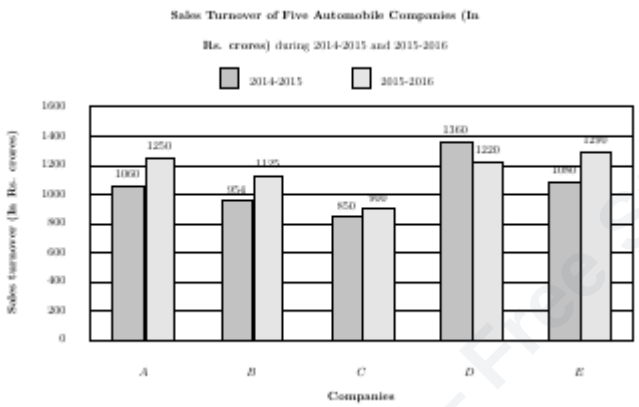
(a) no gain no loss
(b) a gain of Rs. 99
(c) a loss of Rs. 40
(d) a loss of Rs. 99

Q52. Study the given bar graph and answer the question that follows.

The given bar graph represents the Sales Turnover (in Rs. crore) of five automobile companies A, B. C, D and E during 2014-2015 and 2015-2016. The X-axis represents the Companies, and the Y-axis shows the Sales Turnover (in Rs. crore).

(The data shown here is only for mathematical exercise. They do not represent the actual figures of the company.)

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What should have been the sales turn over (in Rs. crore) of Company C in 2015-2016 to have shown the same increase in its sales over 2014-2015 as shown by the sales turnover of Company E?

(a) 1290
(b) 1060
(c) 1110
(d) 1050

Q53. At a factory outlet of a footwear company, every item is available at a discount of 10%. Charu selected footwear marked for Rs. 900. While paying the bill, it was found that the footwear was slightly damaged for which she got another discount of 10%. How much did she pay for the footwear?

(a) Rs. 729
(b) Rs. 801
(c) Rs. 720
(d) Rs. 810

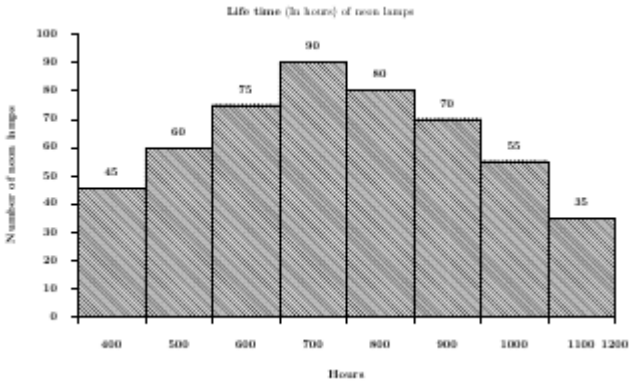
Q54. A solid metallic cube of side 4.4 cm is melted and recast in the form of a wire of radius 2 mm. Find the length (in cm) of the wire. (use π = 22/7)

(a) 338.8
(b) 767.6
(c) 2710.4
(d) 677.6

Q55. If an eleven-digit number 6578x43267y is divisible by 72, then the value of √(x+6y) will be:

(a) 5
(b) 3
(c) 4
(d) 6

Q56. Study the given bar graph which shows the life time (in hours) of neon lamps and the number of neon lamps and answer the question that follows.



The number of neon lamps having life 800 hours or more but less than 1000 hours is what percent (correct to nearest integer) of the total number of neon lamps having life 700 hours or less?

(a) 79%
(b) 87%
(c) 67%
(d) 83%

Q57. The average score of 84 students (boys and girls) in a test is 95. The ratio of the number of boys to that of girls is 10 : 11. The average score of the boys is 20% less than that of the girls. What is the average score of the boys in the test?

(a) 95
(b) 120
(c) 105
(d) 84

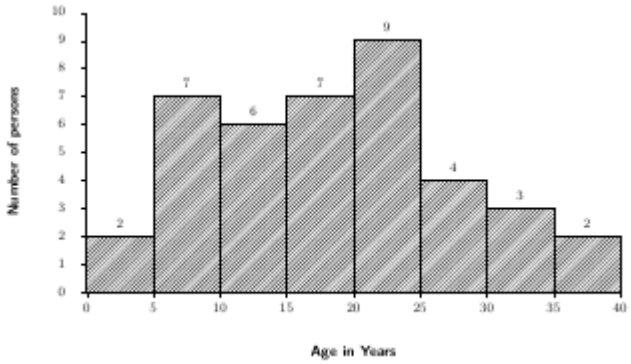
Q58. The simple interest on a certain sum for 31/2 years at the rate of 10% per annum is Rs. 2940. What will be the compound interest (in Rs.) on the same sum for 11/2 years at the same rate when interest is compounded half-yearly (nearest to a rupee)?

(a) 1125
(b) 1564
(c) 1324
(d) 1470

Q59. If 21 tan θ = 20, then(1 + sin θ - cos θ) : (1 - sin θ + cos θ) is equal to:

(a) 11 : 13
(b) 12 : 11
(c) 14 : 15
(d) 13 : 15

Q60. Some persons went on an outstation tour. The histogram shows their ages.



If the children of age less than 15 years got concession, then how many persons got the concession?

(a) 15
(b) 13
(c) 22
(d) 25

Q61. If $x^2 + y^2 = 45$ and $x - y = 5$ then what is the value of $x^3 - y^3$?

(a) -25
(b) 250
(c) 150
(d) 275

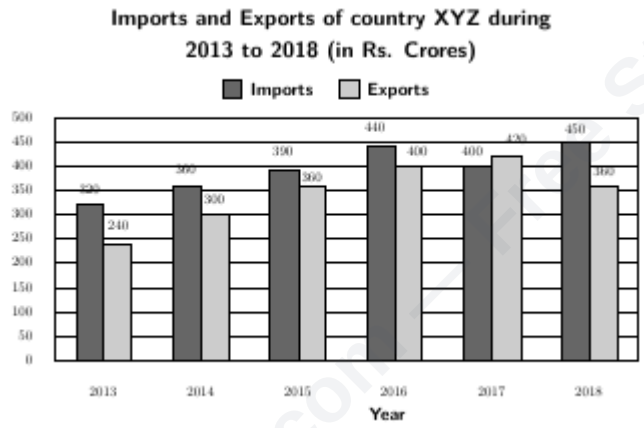
Q62. Simplify the following expression.

$\cos^2 30° + \cos^2 40° + \cos^2 50° + \cos^2 60°$

(a) 2
(b) 1

(c) 5/2
(d) 3/2

Q63. Study the given graph and answer the question that follows.



What percentage of the imports in 2018 is the average exports in 2013, 2015 and 2017? (correct to one decimal place)

(a) 72.4
(b) 75.6
(c) 71.6
(d) 77.8

Q64. Simplify the following expression.
(32/3 of 3/4-1/4 of 4/3)÷(1/4÷3/2)+11/2

(a) 32/3
(b) 16
(c) 29/2
(d) 143/18

Q65. If A is 28% less than B and C is 25% less than the sum of A and B, then by what percentage will C be more than A (correct to one decimal place)?

(a) 75.5%
(b) 79.2%
(c) 81.6%
(d) 84.3%

Q66. AB is a chord of a circle with centre O and P is any point on the circle. If angle APB = 112°, then what is the measure of angle OAB ?

(a) 30°
(b) 32°
(c) 22°
(d) 44°

Q67. If a person travels at a speed of 48 km/h, he will reach his destination on time. He covers two-thirds of his journey in five-sixths of time. At what speed (in km/h) should he travel to cover the remaining distance to reach his destination on time?

(a) 96
(b) 100
(c) 48
(d) 50

Q68. The ratio of the ages of A and B, four years ago, was 4 : 5. Eight years hence, the ratio of the ages of A and B will be 11 : 13. What is the ratio of their present ages?

(a) 7 : 8
(b) 8 : 7

(c) 11 : 9
(d) 9 : 11

Q69. ΔABC is right-angled at B and D is a point on AC such that BD is perpendicular to AC. If BD = 6 cm and AD = 3 cm, then what will be the length of AC?
(a) 9 cm
(b) 12 cm
(c) 15 cm
(d) 18 cm

Q70. If $a^3 + b^3 + c^3 - 3abc = 250$ and $a + b + c = 10$, then what will be the value of $1/5(ab+bc+ca)$?
(a) 5
(b) 25
(c) 15
(d) 10

Q71. Simplify the following expression.
$(0.8\times0.8\times0.8+0.6\times0.6\times0.6)/(0.08\times0.08+0.06\times0.06-0.08\times0.06)$
(a) 14
(b) 1.4
(c) 140
(d) 160

Q72. Two concentric circles are of radii 15 cm and 6 cm. What is the length (in cm) of the chord of the larger circle that is tangent to the smaller circle?
(a) $4\sqrt{21}$
(b) $9\sqrt{21}$
(c) $6\sqrt{21}$
(d) $3\sqrt{21}$

Q73. A, B and C can independently complete the same task in 4, 6 and 12 days, respectively. In how many days will they be able to complete the same task if they work together?
(a) 2
(b) 3
(c) 21/4
(d) 21/2

Q74. If $5k = \tan\theta$ and $5/k = \sec\theta$, then what is the value of $10(k^2-1/(k^2))$?
(a) 2/5
(b) -2
(c) -2/5
(d) 2

Q75. The lengths of three sides of a triangle are in the ratio 3 : 4 : 5. Among three sides, the difference between the largest side and the smallest side of this triangle is 3.6 cm. The area (in cm?) of the triangle is:
(a) 21.75
(b) 19.44
(c) 15.64
(d) 32.4

GENERAL AWARENESS

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Q76. What is the rate at which a wave moves through water, and is measured in knots?

(a) Wave crest and trough
(b) Wave speed
(c) Wave height
(d) Wave frequency

Q77. Who is the author of the book 'My Master'?

(a) Rabindranath Tagore
(b) Raja Ram Mohan Roy
(c) Sri Aurobindo
(d) Swami Vivekananda

Q78. At the 1992 Summer Olympics, _____ became the first woman to carry the flag of India at the opening ceremony of any Olympics.

(a) Karnam Malleswari
(b) Shiny Abraham Wilson
(c) PT Usha
(d) Nilima Ghose

Q79. Which of the following is a large bean-shaped lymphoid organ in the human body?

(a) Spleen
(b) Tonsil
(c) Thymus
(d) Lymph node

Q80. What is the name of the instrument used for measuring the speed and rate of flow of a fluid that is flowing in a pipe?

(a) Venturimeter
(b) Cryometer
(c) Odometer
(d) Machmeter

Q81. Who among the following won a silver medal in the women's 57 kg category at the Individual Wrestling World Cup held in Serbia in December 2020?

(a) Anshu Malik
(b) Anastasia Nichita
(c) Aisuluu Tynybekova
(d) Veronika Chumikova

Q82. With which of the following sports is Sebastian Korda associated?

(a) Badminton
(b) Cricket
(c) Tennis
(d) Volleyball

Q83. In the context of Mughal administration, which of the following is the most appropriate definition of 'Abwab'?

(a) A tax levied on the lands over and above the original rent
(b) A reward for good governance
(c) A court jester
(d) A clerk in the government treasury

Q84. GIMP is a/an _____

(a) Photo editor
(b) operating system
(c) diagnostic utility program
(d) application software

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Q85. 'Malabar 2020', a naval exercise conducted in November 2020, saw the participation of _____ country/countries.

(a) three
(b) one
(c) four
(d) two

Q86. In which of the following states is India's first pollinator park located?

(a) Assam
(b) Uttarakhand
(c) Kerala
(d) Odisha

Q87. Which of the following is NOT a new guideline for credit and debit card users given by Reserve Bank of India in October 2020?

(a) None of the card users will have an option to opt-in or opt-out of services on their credit/debit cards.
(b) All new credit and debit cards issued by the banks will be only enabled for domestic transactions at ATMs and point of sale (PoS) terminals.
(c) The RBI has asked all the banks to disable online payments for all those debit and credit cards which have never been used for online or contactless transactions.
(d) The RBI said that the debit card and credit card users from now on are allowed to set up their own transaction limits.

Q88. As per 'Soils of India, National Bureau of Soil Survey and Land Use Planning report: Publication Number 94' which type of soil (order) is most abundantly available?

(a) Aridisols
(b) Alfisols
(c) Inceptisols
(d) Mollisols

Q89. Which of the following is a variety of oilseed?

(a) Taramira
(b) Arabica
(c) Liberica
(d) Robusta

Q90. Which of the following festivals is celebrated as a kite-flying festival across India?

(a) Makar Sankranti
(b) Holi
(c) Janmashtami
(d) Durga puja

Q91. A _____ is a software program that travels the web locating and indexing websites for search engines.

(a) spider
(b) penguin
(c) bug
(d) python

Q92. The Chalukya dynasty was a major kingdom in the _____ part of India.

(a) eastern
(b) southern
(c) western
(d) northen

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Q93. _____ is a discipline of science that studies the origin and eventual fate of the universe.

(a) Desmology
(b) Bromatology
(c) Acarology
(d) Cosmology

Q94. Which of the following states has the highest entrepreneurial activity in the infrastructure sector as per the Economic Survey 2019-20?

(a) jharkhand
(b) Karnataka
(c) Uttar Pradesh
(d) Sikkim

Q95. Who among the following authored the book 'The Great Indian Novel'?

(a) Khushwant Singh
(b) Vikram Seth
(c) Rohinton Mistry
(d) Shashi Tharoor

Q96. Who is the High Commissioner of India to Bangladesh as of June 2020?

(a) Riva Ganguly Das
(b) Mohammad Mezbah Uddin Chowdhury
(c) Piyush Goe
(d) Narender Batra

Q97. In which of the following states is the Sambhar Lake located?

(a) Mizoram
(b) Rajasthan
(c) Gujarat
(d) Punjab

Q98. In which festival of Maharashtra and Chhattisgarh, are the bullocks and other cattles used for agriculture worshipped?

(a) Pola festival
(b) Jiviti Puja
(c) Ganga Dussehra
(d) Vata Poornima

Q99. Where was the largest solar project namely ‘Provision of Solar Photo Voltaic Powerplant 1.5 MW’ under the ‘Make in India’ initiative set up in November 2020?

(a) Shimla
(b) Leh
(c) Gulmarg
(d) Manali

Q100. Which of the following Articles of the Constitution of India states that 'The President, or the Governor or Rajpramukh of a State, shall not be answerable to any court for the exercise and performance of the powers and duties of his office'?

(a) Article 361
(b) Article 396
(c) Article 352
(d) Article 384

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ANSWER KEY

1	c	2	b	3	b	4	d	5	b	6	d	7	b	8	b	9	b	10	d
11	c	12	a	13	a	14	c	15	d	16	c	17	b	18	c	19	b	20	d
21	a	22	a	23	c	24	c	25	b	26	a	27	a	28	b	29	a	30	d
31	b	32	a	33	d	34	b	35	c	36	d	37	c	38	c	39	a	40	c
41	c	42	a	43	c	44	b	45	c	46	d	47	d	48	b	49	c	50	a
51	c	52	b	53	a	54	d	55	c	56	d	57	d	58	c	59	c	60	a
61	d	62	a	63	b	64	b	65	b	66	c	67	a	68	d	69	c	70	a
71	c	72	c	73	a	74	c	75	b	76	b	77	d	78	b	79	a	80	a
81	a	82	c	83	a	84	a	85	c	86	b	87	a	88	c	89	a	90	a
91	a	92	b	93	d	94	a	95	d	96	a	97	b	98	a	99	b	100	a

SOLUTIONS

Q1. Answer: (c) heptagon

The correct answer is "Option 3".

Key Points

• An octagon is an eight-sided polygon.

• A pentagon is a polygon having five sides.

• A heptagon is a polygon having seven sides, also known as "Septagon".

• A hexagon is a six-sided polygon.

Hence the most appropriate one-word substitution is "Heptagon".

Q2. Answer: (b) BCAD

The correct answer is "Option 2".

Key Points

• In order to solve the jumbled sentences, we should always find out the first sentence that would be the introductory sentence.

• Here the sentence "B" is the introductory sentence as it talks about "California".

• Most of the time, second sentence can be found with the help of link and usage of pronoun in the sentence.

• The sentence "C" starts with the pronoun "it" and explains more about "California"

• The third sentence will always explain more about the part of the second sentence.

• The sentence "A" explains more about "California and how this name was derived".

• Finally, we are left with the last sentence i.e. "D".

Hence, the right order to form a meaningful paragraph is "BCAD".

Q3. Answer: (b) Facsinate

The correct answer is "Option 2".

Key Points

• If we look at the options, Facsinate is the word that is misspelled.

• The correct spelling of this word is "Fascinate" which means "to have someone's complete interest and attention"

• My younger son is fascinated by fiction stories.

Additional Information

Let's look at the other options:

• Architect (noun) means "a person who plans, designs & oversees the construction of buildings".

• My brother is an architect and he has constructed many buildings.

• Obscene (adjective) means "offensive, rude or shocking because of being too obviously related to sex".

• Obscene language is being used in many web series just for the sake of earning popularity.

• Abscess (noun) means "a painful swollen area on or in the body that contains pus".

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• You should take care of this abscess on your shoulder.

Finally, the incorrectly spelled word is "Facsinate".

Q4. Answer: (d) reveal

The correct answer is "Option 4".

Key Points

• Divulge (verb) means "to make something secret known" or "disclose".

• For example, You should know how to divulge the information to the customer.

• In the given options, reveal (verb) means "to make known something usually secret or hidden".

• For example, She revealed her love story to her best friend.

Hence the appropriate synonym is "reveal"

Additional Information

• Suppress (verb) means "to end something by force".

• I could not suppress my anger before an irritating customer.

• Conceal (verb) means "to hide something".

• We should never conceal our health problems with the doctor.

• Decide (verb) "to choose something after thinking carefully about several possibilities".

• I finally decided to join this organization.

At last, the final answer is "Reveal".

Q5. Answer: (b) so he did not carry his own

The correct answer is "Option 2".

Key Points

• It can be understood that the given sentence is in "past indefinite tense" due to the usage of "did not".

• There will be "did not & verb 1st form" in the negative sentence of past indefinite tense.

• For example, I did not go to school yesterday due to a high fever.

• Let's look at the options:

• Option 1 "so he does not carry his own" is in the present tense that does not match with the main sentence so it's incorrect.

• Option 3 "so he did not carried his own" is incorrect because "There should be did not and verb 1st form in past indefinite tense".

• Option 2 "so he did not carry his own" is correct because it's in the past tense that makes the main sentence meaningful.

Hence, the correct sentence is "Kunal did not anticipate the need, so he did not carry his own water bottle".

Q6. Answer: (d) concise

The correct answer is "Option 4".

Key Points

• In the given sentence, a kind of report that was asked by the team leader should be no more than one page.

• So all in all, the report has to be brief but comprehensive.

• If we look at the given options

• Complex (adjective) means "difficult to understand because of having many different parts".

• For example, The news article was so complex that I could not understand it.

• Compound (noun) means "Combination" or "Something consisting of two or more different parts".

• For example, Salt is a compound of sodium and chlorine.

• Curt (adjective) means "rudely blunt and brief".

• For example, She gave me an extremely curt answer.

• Concise (adjective) means "Short and clear with necessary words".

• He wrote a concise summary of the editorial.

Hence, the correct answer that makes the given sentence meaningful is "Concise".

Q7. Answer: (b) Beginner

The correct answer is "Option 2".

Key Points

• Novice means "a person who is starting to learn a job or an activity and has no experience.

• For example, I am just a novice at teaching kids.

So the accurate answer is "Beginner".

Additional Information

Let's understand the other options.

• Expert (adjective) means "having or showing a lot of knowledge or skill".

• For example, Our financial advisors provide expert advice to their clients.

• Adept (adjective) means "skilled".

• For example, He is adept at making people happy.

• Silent (adjective) means "without any sound".

• For example, My street remains as silent as the grave during winters.

The correct synonym of Novice is "Beginner".

Q8. Answer: (b) They said, “We will issue the certificate next week.”

The correct answer is "Option 2".

Key Points

• Whenever we convert indirect speech to direct speech, it's important to remember the following points:

• The conjunction "That" should be changed into inverted commas(," ")

• Make changes in the reported speech clause according to the type of sentence.

• Change time and place references like "that day" into "today", "the day before" into "yesterday", "the following week" into "next week", etc.

• For example:

• He said that he lived in Delhi. (Indirect)

• He said, "I live in Delhi. (direct)

• She said that she would call me the following day. (indirect)

• She said, " I will call you tomorrow. (direct)

Based on the above points & examples, the correct sentence should be "They said, "We will issue the certificate next week".

Q9. Answer: (b) Complete transformation

The correct answer is "Option 2".

Key Points

The idiom "a sea change" means "a profound or notable transformation" or "a complete change".

For example:

• I observed a sea change in his personality after marriage.

• We can feel a sea change in the agenda of the political parties during the recent election.

Hence, the accurate answer is "Complete transformation".

Q10. Answer: (d) intrude

The correct answer is "Option 4".

Key Points

• In the sentence, someone is sorry because the one goes into a place where the one is not expected to be.

• Intrude on/into (verb) means "to go into a place or situation in which the person is not expected to be".

• Intrude means intervene or invade.

So base on the above points, the appropriate word is "Intrude".

Additional Information

• Interrupt means "to stop something from happening for a short period".

• For example, You are really impatient and always interrupt my speech.

• Instruct means "to tell someone to do something formally".

• For example, Students were instructed to stay in a queue.

• Interfere means "to involve yourself in a situation when your involvement is not helpful".

• He should never interfere between a husband and wife.

Important Point

• In the given options, Intrude is the only word that makes the sentence meaningful and follows the preposition "On".

Hence, the correct sentence is "I am sorry to intrude on you at this late hour".

Q11. Answer: (c) Dirty clothes are washed by the poor washerwoman from morning to evening.

The correct answer is "Option 3".

Key Points

• The given sentence is in Present Indefinite Tense because "routine & habit" can be expressed in this tense.

• In Passive Voice - Present Indefinite Tense, we always use the helping verb is/am/are and main verb 3rd form.

• The Object comes in the beginning, and the doer (subject) comes with the preposition "by".

Based on the above instructions, the accurate sentence would be "Dirty clothes are washed by the poor washerwoman from morning to evening."

Additional Information

• The basic rule for Present Indefinite Tense - Passive Voice:

• Object + is/am/are + verb 3rd form + by + doer (subject).

• For example:

• Rocky cooks food in the morning.

• Food is cooked by Rocky in the morning.

• Robin always speaks the truth.

• The truth is always spoken by Robin.

At last, the correct sentence is "Dirty clothes are washed by the poor washerwoman from morning to evening".

Q12. Answer: (a) Where did you kept

The correct answer is 'Option 1'.

Key Points

• The sentence is in "Past Indefinite Tense", and it's an "interrogative sentence".

• In such sentences, we always use "did & verb 1st form".

• So, using verb 2nd form i.e. kept, is inappropriate here.

We should use 'Where did you keep', instead of 'Where did you kept'.

Additional Information

The basic rule for Past Indefinite Tense (Interrogative Sentence):-

• Wh family + did + subject + verb 1st form + object?

• Why did you go there? not (went there)

• Where did you meet him yesterday?

• How did you solve that sum?

Hence, the correct sentence is "Where did you keep the sack of wheat that I bought from the market"?

Q13. Answer: (a) genuine

The solution is in Hindi. Read it online.

Q14. Answer: (c) sheath

The correct answer is 'Option 3'.

Key Points

• A close-fitting cover for the blade of knife or sword is known as 'Sheath'.

• Moreover, 'a close-fitting covering to protect something is also known as Sheath'.

• For example, I always prefer to buy a thermoplastic-sheathed cable.

Based on the above points, it's clear that the accurate answer is "Sheath".

Additional Information

Let's understand the meaning of other options.

• Carrier (noun) - One that carries, bearer, messenger.

• Case (noun) - a set of conditions, a situation requiring investigation.

• Shield (noun) - something or someone used as protection.

Hence, the correct answer is 'Sheath'.

Q15. Answer: (d) No substitution

The correct answer is "Option 4".

Key Points

• In the given sentence, there is a connection between a noun 'a bell' and a clause 'jingled whenever a customer entered'.

• 'Relative pronoun - that' is always used to connect a clause or phrase with people or things.

The given sentence is accurate, so there is no substitution required.

Important Points

• in 'Option 1 - which jingled wherever', a wrong conjunction 'wherever' can be seen that makes no sense with the given sentence,

• In 'Option 2 - who jingles whenever', an incorrect relative pronoun 'who' can be seen that is used for people only, not for the object like a bell.

• In 'Option 3 - that jingle when', we can see the wrong usage of tense 'jingle' and conjunction 'when', whereas the given sentence is in the past tense.

Based on above points, No substitution is required.

Additional Information

• Relative pronouns like 'Who' or 'Which' always connect a clause or phrase to a noun or pronoun.

• 'Who' is always used for people. For example, I know the person who lives here.

• 'Which' is always used for objects & animals. For example, My mobile, which I bought last week, is lost.

Hence, the correct sentence is 'There was a bell over the door that jingled whenever a customer entered.

Q16. Answer: (c) BADC

The correct answer is 'Option 3'

Key Points

• Whenever we get the jumbled sentences to arrange in order, first of all, try to figure out the first sentence.

• In the given sentences, "B" should be the first sentence as it's independently talking something about deserts.

• then we need to find the linking sentence based on the first sentence.

• The sentence "A" starts with "in such places" that is explaining more about the deserts and their sand, so it should be the second sentence.

• Now the sentence "D" explains more about the sand and 'sand dunes', so it should be the third sentence.

• Finally, we are left with the sentence "C", that's our last sentence which talks about sand dunes.

Hence, the final sequence can be formed as "BADC" which gives accurate meaning to the whole para.

Q17. Answer: (b) Pavan returned back home

The correct answer is 'Option 2'

Key Points

• It's not required to use 'return back', just 'return' is enough.

• Whenever we use such unnecessary words, it makes the sentence 'superfluous' (which goes beyond what is required or enough)

• For example, After spending ten years in prison, he has returned home. (not returned back)

Additional Information

• Many of us make the same mistake with 'revert back' where 'revert' is enough to explain the context.

• For example. If you require any further assistance please revert. (not revert back)

Thus, the accurate sentence is 'Pavan returned home when he completed his assignment abroad'.

Q18. Answer: (c) cruelly, without any emotions

The correct answer is 'Option 3'

Key Points

• If someone kills in cold blood, it means "kill in a way that seems really cruel, intentional and without emotion".

• For example, He murdered him in cold blood.

• That's why the appropriate meaning of the phrase "In cold blood" is "Cruelly, without any emotion"

Additional Information

• In mountainous areas means 'having many mountains'

• Accidentally means 'to occur unexpectedly or by chance'

• By freezing to death means 'to die from the cold'.

So the final answer is "Cruelly, without any emotions".

Q19. Answer: (b) Clear

The solution is in Hindi. Read it online.

Q20. Answer: (d) brutle

The correct answer is 'Option 4'

Key Points

• "Brutle' is the misspelt word, the correct spelling of this word is "Brutal".

• Brutal means 'inhuman, cruel, or harsh'.

• It's an adjective that can be used to modify & describe a noun or pronoun. For example, He was sent to jail for the brutal murder of an innocent.

Additional Information

• Cruel (adjective) means 'someone who causes pain or distress to people or animals.

• Coarse (adjective) means 'someone who talks and behaves rudely and offensively.

• Junior (adjective) means someone who holds a low-ranking position in an organization.

Hence the correct answer is 'Brutle' which is misspelt in the given options.

Q21. Answer: (a) probably

The correct answer is "Option 1"

Key Points

• Let's see the context of the passage and the meaning of the words mentioned in the options.

• In the passage, a situation has been explained where the writer was going to Rohana and a girl boarded the train.

• Let us refer to this line from the passage, "I had the train compartment to myself up to Rohana and then a girl got in. The couple who saw her off were _____ her parents".

• Let's refer to the next line "They seemed very anxious.." In this line word they is referring to Noun "Parents".

• From the above sentence, It is understood that the couple who saw her off were her guardian, there is a high chance that they may be parents.

• In option 1, 'Probably' is an adverb and it is used to express 'high chance of happening' On the other hand, the rest of the options i.e. 'absolutely', 'exactly' and 'likely' express a kind of certainty or surety anyhow.

• That's why 'Probably' is the correct option for blank No. 1

The complete passage is- I had the train compartment to myself up to Rohana and then a girl got in. The couple who saw her off were (1)probably her parents. They seemed very anxious (2)about her comfort and gave the girl (3)detailed instructions as to where to keep (4)her things, when not to lean out and how to (5)avoid speaking to strangers.

Additional Information

• Let's look into the meanings of other words:

• Absolutely (Adverb) :- means 'totally' or 'completely'.

• Example :- He is absolutely right.

• Exactly (Adverb) means:- "something is accurate" or "no more no less",

• Example :- The journey will take exactly four hours.

• Likely (adverb) means 'doubtlessly'

• So the correct sentence is - The couple who saw her off were probably her parents".

Q22. Answer: (a) about

The correct answer is option 1.

Key Points

• In the passage, a situation has been explained where the writer was going to Rohana and a girl boarded the train. The parents were worried or concerned about their daughter's comfort.

• Let us refer to this line from the passage, "The couple who saw her off were probably her parents. They seemed very anxious _____ her comfort".

• From the above sentence, It is clearly understood, being a parent, it's natural that they would be really worried about their daughter.

• In option 1, 'about' is a preposition and when it's followed by the word anxious, it shows concern.

• 'Anxious about' refers to the subject of worry, (worried about someone or something)

• That's why 'about' is the correct option for blank No. 2

The complete passage is- I had the train compartment to myself up to Rohana and then a girl got in. The couple who saw her off were (1)probably her parents. They seemed very anxious (2)about her comfort and gave the girl (3)detailed instructions as to

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where to keep (4)her things, when not to lean out and how to (5)avoid speaking to strangers.

Additional Information

• Let us look into the meanings of other words:

• During (preposition) means 'throughout the course'. For example: During the interview, they ask many questions.

• With (preposition) means "being together or being involved", For example, I was with my brother at the grocery store.

• Over (preposition) means "position at a higher level than something else". For example, A bird flew over the lake.

Q23. Answer: (c) detailed

The correct answer is option 3.

Key Points

• In the passage, the parents were worried or concerned about their daughter's comfort. They gave instructions to follow to have a safe journey.

• Let us refer to this line from the passage, "They seemed very anxious about her comfort and gave the girl _____ instructions...".

• From the above sentence, it's clear that we need to find out, what kind of instructions were given by the parents.

• If someone has to follow the instructions, so they have to be specified, detailed & descriptive.

• In option 3, 'detailed' is the word that is the most suitable, on the contrary, the rest of the options i.e. "concise", "general" & "unspecified" are almost the opposite.

• That's why 'detailed' is the correct option for blank No. 3.

The complete passage is- I had the train compartment to myself up to Rohana and then a girl got in. The couple who saw her off were (1)probably her parents. They seemed very anxious (2)about her comfort and gave the girl (3)detailed instructions as to where to keep (4)her things, when not to lean out and how to (5)avoid speaking to strangers.

Additional Information Let us look into the meanings of other words:

• Concise (adjective) means "short & clear". For example, I would like to write a concise summary of this poem.

• General (adjective) means "not detailed but the most basic information", For example, He can only speak in general terms.

• Unspecified (adjective) means "not described in detail". For example, Whatever you shared with me, was unspecified.

Q24. Answer: (c) her

The correct answer is option 3.

Key Points

• In the passage, the parents gave detailed instructions to follow such as 'where to keep the things.

• Let us refer to this line from the passage, "They seemed very anxious about her comfort and gave the girl detailed instructions as to where to keep _____ things.."

• From the above sentence, it's clear that we need to find out the relative pronoun that will be used in the place of noun.

• Here the noun is "girl" and the relative pronoun should be "her"

• That's why 'her' is the correct option for blank No. 4.

The complete passage is- I had the train compartment to myself up to Rohana and then a girl got in. The couple who saw her off were (1)probably her parents. They seemed very anxious (2)about her comfort and gave the girl (3)detailed instructions as to where to keep (4)her things, when not to lean out and how to (5)avoid speaking to strangers.

Additional Information Let us understand a little bit about relative pronoun. (The pronoun that will show relation) for example, This is my bag.

• I am doing my work.

• He is doing his work.

• She is doing her work.

• We are doing our work.

• They are doing their work.

Q25. Answer: (b) avoid

The correct answer is option 2.

Key Points

• In the passage, the parents gave detailed instructions to follow such as "where to keep the things, when to stop getting involved, and many others".

• Let us refer to this line from the passage, "They seemed very anxious about her comfort and gave the girl detailed instructions as to where to keep her things, when not to lean out and how to _____ speaking to strangers."

• If we look at the given options, we would easily understand that speaking can't be rejected, protected, or protested, it can only be avoided.

• So all in all, the parents want their girl to avoid speaking to strangers.

• That's why 'avoid' is the correct option for blank No. 5.

The complete passage is- I had the train compartment to myself up to Rohana and then a girl got in. The couple who saw her off were (1)probably her parents. They seemed very anxious (2)about her comfort and gave the girl (3)detailed instructions as to where to keep (4)her things, when not to lean out and how to (5)avoid speaking to strangers.

Additional Information

The exact meaning of Lean out is to bend, tilt. For example, A child was leaning out of a car window.

As a phrasal verb Lean out means "avoiding engagement" or "not getting involved in a situation that adversely affect your well-being".

Q26. Answer: (a) [figure]

Given:

The logic followed here is:

(1) One shape has moved inside the circle in the anticlockwise direction and the one inside the circle has moved outside but in the same place in each step.

(2) All the shapes that are outside the circle are rotating in clockwise direction (from one corner of the square to another).

The answer figure should have:

(1)

should be inside the circle and

should move outside.

(2)

should move to the bottom left corner,

to the upper left corner, and

to the upper right corner of the square.

Thus, the complete series is as follows,

Hence, option (1) is the correct answer.

Q27. Answer: (a) F

Given:

Logic: If two dice have same face value in given image than their clockwise or anticlockwise wise number/letter are know as opposite number/letter in dice.

While moving in clockwise direction from common face (B) of dice (1) and dice (3):

From the both dices:

Dice 1	**B**	**A**	**F**
Dice 3	B	C	E

Now, F is opposite to E, thus F will be on the face opposite to the face having E.

Hence, F is the correct answer.

Q28. Answer: (b) Husband's sister

From the given information,

(1) Revati is the sister of Sujit.

(2) Pranjal's mother is married to Sujit.

(3) Bhavita has one son and one daughter.

(4) Lopa is the sister of Pranjal, who is the paternal grandson of Bhavita, implies Sujit is the son of Bhavita.

(5) Lopa is the daughter of Ramya, implies Ramya is married to Sujit. Thus, the final family tree is as follows,

Hence, Revati is the husband's sister of Ramya.

Q29. Answer: (a) PMJG

(1) PMJG

(2) USPL

(3) YWTP

(4) MKHD

Hence, PMJG is the odd one.

Q30. Answer: (d) 317 : 337

The Logic here is as follows:

Given: 263 : 271

The Logic here is as follows:

263 and 271 both are prime numbers and between both prime numbers only one prime number is '269' coming.

Now we check all the options-

Option (1): 261 : 267

Here, 261 and 267 both are not a prime numbers.

So, this option is not follow the pattern.

Option (2): 23 : 293

Here, 23 and 293 both are a prime numbers but between both prime number many prime number '29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241, 251, 257, 263, 269, 271, 277, 281, 283' are coming.

This option is not follow the pattern.

Option (3): 223 : 233

Here, 223 and 233 both are a prime numbers but between both prime number two prime number '227, 229'are coming.

This option is not follow the pattern.

Option (4): 317 : 337

Here, 317 and 337 both are a prime numbers and between both prime number only prime number '331' are coming.

This option is follow the pattern.

Hence, option (4) is correct answer

Q31. Answer: (b) 177

The logic followed here is:

All numbers are multiples of 33 except 177.

By checking options:

(1) 198 → 33 × 6 = 198

(2) 177 → not a multiple of 33.

(3) 132 → 33 × 4 = 132

(4) 165 → 33 × 5 = 165

Hence, 177 is the correct answer.

Q32. Answer: (a) [figure]

Given:

By checking options:

(2)

(3)

(4)

Thus, only option (1) is not hidden in the given figure.

Hence, option (1) is the correct answer.

Q33. Answer: (d) 5, 3, 1, 4, 2

Arranging all the words as per their order in the dictionary:

5. Decamp

3. Decapitate

1. Deceive

4. Decency

2. Deceptive

Hence, 5, 3, 1, 4, 2 is the correct order.

Q34. Answer: (b) Only conclusions I and II follow

The least possible Venn diagram is:

Conclusions :

I. Some roses are pins → Ture (as some pins are roses, implies some roses are pins)

II. Some pins are not machines → True (as some pins are roses, no rose is a machine, implies some pins which are roses are not machines).

III. All machines are pins → False (it is possible but not definite as shown in diagram above that no pin is machine is possible).

Additional Information

Q35. Answer: (c) s p r r p

Given: r r p p s _ p _ s s r _ s s r _ _ p

By checking the options:

(1) p r p p s → r r p p s p / p r s s r p / s s r p s p

(2) s s r p p → r r p p s s / p s s s r r / s s r p p p

(3) s p r r p → r r p p s s / p p s s r r / s s r r p p

r r p p s s (repeat)

(4) s r r s p → r r p p s s / p r s s r r / s s r s p p

Option (3) gives a pattern of r r p p s s / p p s s r r / s s r r p p.

Hence, s p r r p is the correct answer.

Q36. Answer: (d) 81

Given:

LIABILITY is coded as 141 and OFFICIATE is coded as 166.

The logic is here:

Sum of opposite alphabets place value and subtract by 3.

Table show alphabet serial number –

LIABILITY is coded as 141,

Step 1 → Sum of all opposite alphabets place value is

15 + 18 + 26 + 25 + 18 +15 +18 + 7 + 2 = 144

Step 1 → Subtract by 3.

144 – 3 = 141

And

OFFICIATE is coded as 166,

Step 1 → Sum of all opposite alphabets place value is:

12 + 21 + 21 + 18 + 24 + 18 + 26 + 7 + 22 = 169

Step 1 → Subtract by 3.

169 – 3 = 166

Similarly,

STATUTORY = ?

Step 1 → Sum of all opposite alphabets place value is:

8 + 7 + 26 + 7 + 6 + 7 + 12 + 9 + 2 = 84.

Step 1 → Subtract by 3.

84 – 3 = 81

Hence, ‘STATUTORY’ is coded as “81”.

Q37. Answer: (c) 22

By counting the triangles:

Alternate Method

The triangles are → ADE, AEC, ACB, DEG, DGH, HGI, IGE, EIF, FEC, CFB, ABF, AEF, AEB, EBF, DEI, DIH, DEH, HEI, ADF, DFI, AFI, AID → 22 triangles.

Hence, 22 is the correct answer.

Q38. Answer: (c) 774

Given: 14, 28, 31, 124, 129, ?

The logic followed here is:

Hence, 774 is the correct answer.

Q39. Answer: (a) 40 years

Given: A father's age at the time of the birth of his son is the same as the present age of the son.

Now, let the present age of father be 'F', and that of his son be 'S'.

=> F - S = S

=> F = S + S

=> F = 2 × S

Now, If the age of the son was 15 years five years ago,

=> S - 5 = 15

=> S = 20 years.

Then, F = 2 × 20

F = 40 years

Hence, the current age of the father is 40 years.

Q40. Answer: (c) UYX

Given: UDM : YZQ :: QCT : ?

The logic followed here is:

Similarly;

Hence, UYX is the correct answer.

Alternate Method

Similarly,

Hence, UYX is the correct answer.

Q41. Answer: (c) (440, 229, 422)

Given: (850, 645, 410)

The logic followed here is:

(850, 645, 410) → 850 - 645 = 205 → 205 × 2 = 410

By checking options,

(1) (751, 396, 544) → 751 - 396 = 355 → 355 × 2 = 710

(2) (558, 256, 356) → 558 - 256 = 302 → 302 × 2 = 604

(3) (440, 229, 422) → 440 - 229 = 211 → 211 × 2 = 422

(4) (550, 402, 135) → 550 - 402 = 148 → 148 × 2 = 296

Hence, (440, 229, 422) is the correct answer.

Q42. Answer: (a) 2194 : 3372 : 4910

The logic followed here is:

Cube of odd number - 3

For 122 : 340 : 726

Option 1 → 2194 : 3372 : 4910

Option 2 → 2199 : 3377 : 4915

Option 3 → 1951 : 3084 : 4217

Option 4 → 1886 : 3068 : 4606

Hence, the correct answer is "2194 : 3372 : 4910".

Q43. Answer: (c) Vehicle

Given: 'Guitar' is related to 'Music Instrument' in the same way as 'Car' is related to '_____'.

The logic followed here is:

Guitar is a Music System.

Similarly,

Car is a Vehicle.

Hence, vehicle is the correct answer.

Q44. Answer: (b) Criticize

By checking the options:

All Applaud, Honour, and Admire are Synonyms.

Whereas,

Criticize is the antonym of Applaud, Honour, and Admire.

Hence, criticize is the odd one.

Important PointsApplaud → show approval or praise by clapping.

Honour → regard with great respect.

Admire → regard with respect or warm approval.

Criticize → indicate the faults of (someone or something) in a disapproving way.

Q45. Answer: (c) [figure]

The logic followed here is:

The paper when unfolded, will look like:

Hence, option (3) is the correct answer.

Q46. Answer: (d) Ostrich : Bird

Given: Rat : Rodent

The logic followed here is:

Rat is a Rodent.

Similarly,

Ostrich is a Bird.

Hence, Ostrich : Bird is the correct answer.

Important PointsRodent → a gnawing mammal of an order that includes rats, mice, squirrels, hamsters, porcupines, and their relatives, distinguished by strong constantly growing incisors and no canine teeth. They constitute the largest order of mammals.

Reptile → a vertebrate animal of a class that includes snakes, lizards, crocodiles, turtles, and tortoises. They are distinguished by having a dry scaly skin and typically laying soft-shelled eggs on land.

Mistake Points(1) Whale is not a Shark.

(2) Frog is not a reptile, it is an amphibian (small vertebrates that need water, or a moist environment, to survive).

(3) Cattle is not a Cow, but cow is a cattle.

Q47. Answer: (d) [figure]

Given:

The logic followed here is: let the line AB be the mirror,

Detailed Explanation:

• The line AB is the mirror.

• The given image has

which will become

in the mirror image and

will become

in the mirror image => Option 1 and 3 are eliminated.

• Option (2) is the water image of the given image not the mirror image => Option 2 is eliminated.

Hence, option (4) is the correct answer.

Q48. Answer: (b) [figure]

Given: Father, Men, Uncle

The logic followed here is: All fathers are men, all uncles are men, and some fathers are uncles too.

• Here, the father of A can be an uncle to B.

• Similarly, A's uncle could be the father of B.

• All fathers and uncles are men.

• Applying this logic, we get the following Venn diagram:

Hence, option (2) is the correct answer.

Q49. Answer: (c) ÷, ×, -, +, =

Given: 40 * 5 * 7 * 24 * 6 * 38

By substituting the signs option wise:

(1) +, ×, ÷, -, =
=> 40 + 5 × 7 ÷ 24 - 6 = 38
LHS = 40 + 5 × 7 ÷ 24 - 6
= 40 + 5 × 0.292 - 6
= 40 + 1.46 - 6
= 41.46 - 6
= 35.46
≠ 38
=> LHS ≠ RHS
(2) ÷, -, ×, +, =
=> 40 ÷ 5 - 7 × 24 + 6 = 38
LHS = 40 ÷ 5 - 7 × 24 + 6
= 8 - 7 × 24 + 6
= 8 - 168 + 6
= 14 - 168
= - 154
≠ 38
=> LHS ≠ RHS
(3) ÷, ×, -, +, =
=> 40 ÷ 5 × 7 - 24 + 6 = 38
LHS = 40 ÷ 5 × 7 - 24 + 6
= 8 × 7 - 24 + 6
= 56 - 24 + 6
= 62 - 24
= 38
=> LHS = RHS
(4) +, ×, -, ÷, =
=> 40 + 5 × 7 - 24 ÷ 6 = 38
LHS = 40 + 5 × 7 - 24 ÷ 6
= 40 + 5 × 7 - 4
= 40 + 35 - 4
= 75 - 4
= 71
≠ 38
=> LHS ≠ RHS
Hence, ÷, ×, -, +, = is the correct answer.

Q50. Answer: (a) HOJYJG

Given: CANDLE is written as FMEOBD
The logic followed here is:
Similarly,
Hence, HOJYJG is the correct answer.

Q51. Answer: (c) a loss of Rs. 40

Given:
The selling price of each wristwatch = Rs. 1980
Concept used:
CP = SP × 100/(100 – Loss%)
CP = SP × 100/(100 + Profit%)
Calculation:
CP of 1 watch = 1980 × 10/11
=> Rs. 1800

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CP of another watch = 1980 × 10/9

=> Rs. 2200

Total CP = 1800 + 2200

=> Rs. 4000

Total SP = 1980 × 2

=> 3960

Loss = 4000 – 3960

=> Rs. 40

Therefore The entire transaction resulted in a loss of Rs. 40.

Shortcut TrickWhen Profit and loss % are the same and SP is also the same then it will give only a loss

• 10% -10% + (-10 × 10)/100

=> -1%

Loss = 3960 × 1/99

=> Rs. 40

Therefore The entire transaction resulted in a loss of Rs. 40.

Q52. Answer: (b) 1060

According to the question,

Sales turnover of Company E increased in 2015 - 2016 in respect of 2014 - 2015 = 1290 – 1080

=> 210 crore

Sales turnover of Company C in 2014 - 2015 = 850 crore

Sales turnover of Company C should be to match the increase of Company E = 850 + 210

=> 1060 crore

Therefore Required answer is 1060 crore.

Q53. Answer: (a) Rs. 729

Given:

Marked price of footwear = Rs. 900

Concept used:

Successive discount

Calculation:

According to the question,

CP of footwear at which Charu brought that = 900 × 9/10 × 9/10

=> 9 × 9 × 9

=> Rs. 729

Therefore She paid Rs. 729 for the footwear.

Alternate Method-10% -10% + (-10 × -10)/100

=> - 20% + 1%

=> - 19%

=> Actual discount = - 19%

So, CP = 900 × 81/100

=> Rs. 729

Therefore She paid Rs. 729 for the footwear.

Q54. Answer: (d) 677.6

Given:

Length of the edge, a = 4.4 cm

Radius = 2 mm = 0.2 cm

Concept used:

Volume of cube = a^3

Volume of cylinder = $\pi r^2 h$

Calculation:

Volume of the cube = $(4.4)^3$

=> 85.184 cm3

Now, Volume of the wire = $\pi r^2 h$

$22/7 \times 0.2^2$

=> 0.88/7

We know that, Volume of the cube = volume of the wire

So, Length of the wire = $a^3/\pi r^2 h$

=> (85.184 × 7)/0.88

=> 596.288/0.88

=> 677.6

Therefore The length of the wire is 677.6 cm

Q55. Answer: (c) 4

Given:

6578x43267y

Concept used:

Divisibility rule of 9 = Sum of all digits is divisible by 9

Divisibility rule of 8 = Sum of last three digits is divisible by 8

Calculation:

6578x43267y

67y

=> 670 + y

=> 672 is divisible by 8

So y = 2

6578x432672

=> 6 + 5 + 7 + 8 + x + 4 + 3 + 2 + 6 + 7 + 2

=> 50 + x

=> 50 + 4 = 54 is divisible by 9

So x = 4

$\sqrt{(x+6y)}$

=> $\sqrt{(4+6\times2)}$

=> $\sqrt{(4+12)}$

=> $\sqrt{16}$

=> 4

Therefore Required answer is 4

Q56. Answer: (d) 83%

Total no. neon lamps having life 800 hours or more but less than 1000 hours = 80 + 70

=> 150

Total number of neon lamps having life 700 hours or less = 45 + 60 + 75

=> 180

Percentage = (150/180) × 100

=> 5/6 × 100

=> 83.33 ≈ 83%

Therefore Required answer is 83%

Q57. Answer: (d) 84

Given:

Total no. of students = 84

Average = 95

Ratio of boys : girls = 10 : 11

Concept used:

Average = Sum of elements/no. of elements

Calculation:

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Boys = 84 × 10/21
=> 40
Girls = 44
Let average score of girls = 5x
So, boys = 4x
According to the question,
40 × 4x + 44 × 5x = 95 × 84
=> 160x + 220x = 95 × 84
=> 380x = 95 × 84
=> 4x = 84
=> Average of boys = 84
Therefore The average score of the boys in the test is 84
Shortcut Trick
=> (5x-95)/(95-4x)=10/11
=> 55x - 1045 = 950 - 40x
=> 95x = 1995
=> x = 21
=> 4x = 84
=> Average of boys = 84
Therefore The average score of the boys in the test is 84

Q58. Answer: (c) 1324

Given:
Simple interest = Rs. 2940
Time = 31/2 years
Rate = 10%
Formula used:
S.I = (P × t × r)/100
C.I = $P(1 + r/100)^n - P$
Calculation:
Let principal be P
According to the question,
2940 = (P × 3.5 × 10)/100
=> P = Rs. 8400
C.I = $8400(1 + 5/100)^3 - 8400$
=> 8400 × (21/20)3 - 8400
=> 8400 × 9261/8000 - 8400
=> 9724.05 - 8400
=> Rs. 1324.05 ≈ Rs. 1324
Therefore Compound interest will be Rs. 1324

Q59. Answer: (c) 14 : 15

Given:
21 tan θ = 20
Concept used:
tanθ = P/B
sinθ = P/H
cosθ = B/H
P = perpendicular
B = base
H= hypotenuse
Calculation:

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We know 20, 21 and, 29 is a Pythagorean triplets
So, 21 tan θ = 20
=> tanθ = 20/21
=> sinθ = 20/29
=> cosθ = 21/29
(1 + sin θ - cos θ) : (1 - sin θ + cos θ)
=> (1 + 20/29 - 21/29) : (1 - 20/29 + 21/29)
=> (29 + 20 - 21)/29 : (29 - 20 + 21)/29
=> 28 : 30
=> 14 : 15
Therefore Required value is 14 : 15

Q60. Answer: (a) 15

Age	No. of Children
0 – 5	2
5 – 10	7
10 – 15	6

Total no. of person got concession = 2 + 7 + 6
=> 15
Therefore 15 persons got the concession

Q61. Answer: (d) 275

Given:
x2 + y2 = 45
x - y = 5
Formula used:
$(a - b)^2 = a^2 + b^2 - 2ab$
a3 - b3 = (a - b)(a2 + b2 + ab)
Calculation:
x - y = 5
=> $(x - y)^2 = 25$
=> x2 + y2 – 2xy = 25
=> 45 – 2xy = 25
=> 2xy = 20
=> xy = 10
$x^3 - y^3 = (x - y)(x^2 + y^2 + xy)$
=> 5{45 + 10}
=> 5 × 55
=> 275
Therefore Required answer is 275

Q62. Answer: (a) 2

Given:
cos2 30° + cos2 40°+ cos2 50° + cos2 60°
Concept used:
Sin(90 - θ)° = Cosθ
sin2θ + cos2θ = 1
Calculation:
cos2 30° + cos2 40°+ cos2 50° + cos2 60°
=> cos2 30° + cos2 40°+ cos2 (90 – 40)° + cos2(90 – 30)°
=> cos2 30° + cos2 40°+ sin2 40° + sin230°

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=> cos2 30° + sin230° + cos2 40°+ sin2 40°
=> 1 + 1
=> 2
Therefore Required answer is 2

Q63. Answer: (b) 75.6

Export in 2013 = 240
Export in 2015 = 360
Export in 2017 = 420
Total export in three years = 240 + 360 + 420 = 1020
=> Average export in three years = 1020/3 = 340
Import in 2018 = 450
Required Percentage = (340/450) × 100 = 75.55% ≈ 75.6%
Therefore Required percentage is 75.6%

Q64. Answer: (b) 16

Given:
(32/3 of 3/4-1/4 of 4/3)÷(1/4÷3/2)+11/2
Concept used:
Calculation:
(32/3 of 3/4-1/4 of 4/3)÷(1/4÷3/2)+11/2
=> (11/3 × 3/4-1/4 × 4/3)÷(1/4÷3/2)+11/2
=> (11/4 -1/3)÷(1/4÷3/2)+11/2
=> ((33 - 4)/12)÷(1/4×2/3)+3/2
=> (29/12)÷(1/6)+3/2
=> 29/12×6+3/2
=> 29/2 + 3/2
=> 32/2
=> 16
Therefore Required answer is 16

Q65. Answer: (b) 79.2%

Given:
A is 28% less than B
C is 25% less than the sum of A and B
Calculation:
100A = 72B
=> 25A = 18B
=> A/B = 18/25
=> A : B = 18 : 25
Let A and B is 18x and 25x
4C = 3 × 43x
=> C = 32.25x
C – A = 32.25x – 18x
=> 14.25x
(14.25x/18x) × 100
=> 1425/18
=> 79.166 ≈ 79.2%
Therefore C will be 79.2% more than A

Q66. Answer: (c) 22°

Given:
angle APB = 112°

Concept used:
Concept of the line segment of the circle
Calculation:
In the given figure,
angle APB = 112°
AB is a chord
We know if a chord makes x° on the major arc of the circle then it will make 2x° on the center.
So, angle AOB = 224°
But angle cannot be greater than 180°
So angle is = 360 - 224
=> 136°
AO = BO = radius of the circle
So,
angle OAB = 44/2 = 22°
Therefore The measure of angle OAB is 22°

Q67. Answer: (a) 96

Given:
Normal speed of the person = 48 km/h
Concept used:
Speed = Distance/Time
Calculation:
Let he usually travels for 6x hours
So. his total distance = 48 × 6x
=> 288x km
According to the question,
He covered 288x × 2/3 = 192x km in 5x hours
So remaining 288x - 192x = 96x km
He will cover it in x hours
So, speed = 96x/x = 96 km/h
Therefore He should travel 96 km/h to cover the remaining distance to reach his destination on time.

Q68. Answer: (d) 9 : 11

Shortcut Trick
Ratio 4 years ago = 4 : 5 (difference 1 unit); Ratio 8 years hence = 11 : 13 (difference 2 units).
Equate differences by multiplying the first ratio by 2: (4 × 2) : (5 × 2) = 8 : 10.
Growth of 3 units (11 − 8 or 13 − 10) corresponds to a total gap of 12 years (4 + 8).
3 units = 12 years => 1 unit = 4 years.
Present ages: A = (8 × 4) + 4 = 36; B = (10 × 4) + 4 = 44. Ratio = 36 : 44 = 9 : 11.
Therefore The correct answer is 9 : 11.
Alternate Method
Given: Ratio of ages of A and B four years ago = 4 : 5 and eight years hence = 11 : 13.
Let the ages of A and B four years ago be 4x and 5x respectively.
=> Present age of A = 4x + 4
=> Present age of B = 5x + 4
=> Ages after 8 years: A = 4x + 12, B = 5x + 12
=> (4x + 12) / (5x + 12) = 11 / 13
=> 13(4x + 12) = 11(5x + 12)
=> 52x + 156 = 55x + 132
=> 3x = 24 => x = 8
=> Present age of A = 4(8) + 4 = 36 years
=> Present age of B = 5(8) + 4 = 44 years

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=> Required Ratio = 36 : 44 = 9 : 11

Therefore The correct answer is 9 : 11.

Additional Information

Constant Age Difference

The mathematical difference between the ages of two individuals always remains constant throughout their lives, regardless of the time elapsed.

Ratio Balancing Method

When two ratios at different time intervals are given, multiply the terms such that the difference between the ratio parts remains the same as the actual years passed.

Time Gap Logic

The total time gap between 'n' years ago and 'm' years hence is calculated as (n + m) years.

Q69. Answer: (c) 15 cm

Given:

BD = 6 cm

AD = 3 cm

Formula used:

$P^2 + b^2 = h^2$

Calculation:

$AB^2 = AD^2 + BD^2$

=> AB2 = 32 + 62

=> AB2 = 45

We know in right angle tringle if a line from vertex of 90° makes 90° on the hypotenuse then p^2/h = base of the smaller triangle made by the line

As given in the figure

$AD = AB^2/AC$

=> 3 = 45/AC

=> AC = 15 cm

Therefore The length of AC is 15 cm

Q70. Answer: (a) 5

Given:

a3 + b3 + c3 - 3abc = 250

a + b + c = 10

Formula used:

x3 + y3 + z3 - 3xyz = (x + y + z){x2 + y2 + z2 - (xy + yz + xz)}

$(x + y + z)^2 = x2 + y2 + z2 + 2(xy + yz + xz)$

Calculation:

a3 + b3 + c3 - 3abc = 250

=> $(a + b + c)\{a^2 + b^2 + c^2 - (ab + bc + ca)\} = 250$

=> {a2 + b2 + c2 - (ab + bc + ca)} = 25 ----(i)

a + b + c = 10

=> $(a + b + c)^2 = 100$

=> a2 + b2 + c2 + 2ab + 2bc + 2ca = 100 ----(ii)

By doing (ii) – (i) we get

3ab + 3bc + 3ca = 75

=> ab + bc + ca = 25

1/5(ab+bc+ca)

=> 1/5 × 25

=> 5

Therefore The value of 1/5(ab+bc+ca) will be 5

Alternate MethodPut a = 5, b = 5 c = 0

a3 + b3 + c3 - 3abc = 125 + 125 + 0

=> 250

a + b + c = 5 + 5 + 0

=> 10

Both are satisfying

So, 1/5(ab+bc+ca) = 1/5(25 + 0 + 0)

=> 5

Therefore The value of 1/5(ab+bc+ca) will be 5

Q71. Answer: (c) 140

Given:

(0.8×0.8×0.8+0.6×0.6×0.6)/(0.08×0.08+0.06×0.06-0.08×0.06)

Formula used:

(a)3 + (b)3 = (a + b)(a2 + b2 - ab)

Calculation:

(0.8×0.8×0.8+0.6×0.6×0.6)/(0.08×0.08+0.06×0.06-0.08×0.06)

=> $((0.8)^3 + (0.6)^3)/((0.08)^2 + (0.06)^2 - 0.08 \times 0.06)$

=> (0.512 + 0.216)/(0.0064 + 0.0036 – 0.0048)

=> 0.728/0.0052

=> 140

Therefore Required answer is 140

Alternate Method$(1/1000)(8^3 + 6^3)/(1/10000)(8^2 + 6^2 - 8 \times 6)$

=> $10(8 + 6)(82 + 62 - 8 \times 6)/(82 + 62 - 8 \times 6)$

=> 10 × 14

=> 140

Therefore Required answer is 140

Mistake PointsPlease note that in Numerator it is 0.8 and 0.6 and in the denominator, it is 0.08 and 0.06

Q72. Answer: (c) 6√21

Given:

Radius of larger circle = 15 cm

Radius of smaller circle = 6 cm

Formula used:

Pythagoras theorem

Calculation:

Let O be the center of the circle, AB be the chord of the largest circle and C be the point on the smaller circle through which the chord passes

AO = 15 cm and OC = 6 cm

Applying Pythagoras theorem in AOC:

$AC^2 = AO^2 - OC^2$

=> $AC^2 = 15^2 - 6^2$

=> AC2 = 225 - 36

=> AC2 = 189

=> AC = 3√21

AB = 2AC (A perpendicular drawn from the center of the circle to the chord bisects the chord)

AB = 2 x 3√21 = 6√21 cm

Therefore The length of the chord of the larger circle that is tangent to the smaller circle is 6√21 cm

Q73. Answer: (a) 2

Given:

A can do in 4 days

B can do in 6 days

C can do in 12 days

Concept used:

One day work of x = 1/b
Here b = time to taken to complete the work
Calculation:
A's one day work = 1/4
B's one day work = 1/6
C's one day work = 1/12
A + B + C one work = 1/4 + 1/6 + 1/12
=> (3 + 2 + 1)/12
=> 6/12
=> 1/2
=> Time = 2 days
Therefore They will complete in 2 days
Shortcut Trick
Total efficiency = 6
So, work will be complete in 12/6 = 2 days
Therefore They will complete in 2 days

Q74. Answer: (c) -2/5

Given:
5k = tan θ
5/k=sec θ
Concept used:
sec2θ – tan2θ = 1
Calculation:
5k = tan θ
=> k = tan θ/5
=> $k^2 = \tan^2 \theta/25$
5/k=sec θ
=> 1/k = sec θ/5
=> $1/k^2 = \sec^2 \theta/25$
$10(k^2-1/(k^2))$
=> 10(tan2 θ/25 – sec2 θ/25)
=> 10{(tan2 θ/25 – sec2 θ)/25
=> 10(-1/25)
=> -2/5
Therefore The value of $10(k^2-1/(k^2))$ is -2/5

Q75. Answer: (b) 19.44

Given:
Ratio of sides of the triangle = 3 : 4 : 5
Formula used:
1/2 × base × height
Calculation:
Let sides are 3x, 4x, and 5x
According to the question,
5x - 3x = 3.6
=> 2x = 3.6
=> x = 1.8 cm
We know 3, 4, 5 are Pythagorean triplets
So, Area = 1/2 × 3x × 4x
=> 1/2 × 5.4 × 7.2
=> 19.44 cm^2

Therefore The area of the trinagle is 19.44 cm^2

Important Points

Some important Pythagorean triplets

(3, 4, 5),

(5, 12, 13)

(8, 15, 17)

(7, 24, 25)

(20, 21, 29)

(12, 35, 37)

(9, 40, 41)

Q76. Answer: (b) Wave speed

The correct answer is Wave Speed.

Key Points

• Wave Speed is the rate at which the wave moves through the water.

• It is measured in knots.

• A wave is visualized when a source vibrates and disturbs a particle in the medium.

• The most commonly used wave speed is the speed of visible light, an electromagnetic wave.

Additional Information

• Wave crest and trough

• The crest of a wave is the point on the medium that exhibits the maximum amount of positive or upward displacement from the rest position.

• The lowest surface part of a wave is called the trough.

Q77. Answer: (d) Swami Vivekananda

The correct answer is Swami Vivekananda.

Key Points

• Swami Vivekananda

• Swami Vivekananda addressed the World Parliament of Religions in Chicago in 1893.

• Swami Vivekananda's original name was Narendranath Datta.

• Swami Vivekananda was a chief disciple of the 19th-century Indian mystic Sri Ramakrishna Paramahamsa.

• Swami Vivekananda was the founder of Ramakrishna Mission (1897) and Ramakrishna Math.

Additional Information

• Rabindranath Tagore

• He was popularly known as 'Gurudev'.

• He wrote the national anthems of two countries, India and Bangladesh.

• Raja Ram Mohan Roy

• Raja Ram Mohan Roy the founder of the Brahmo Samaj.

• He was a great scholar and an independent thinker.

• He is known as the 'Father of Modern India' or 'Father of the Bengal Renaissance.

• Sri Aurobindo

• Sri Aurobindo was an Indian philosopher, yoga guru, maharishi, poet, and Indian nationalist.

• He was also a journalist, editing newspapers like Bande Mataram.

Q78. Answer: (b) Shiny Abraham Wilson

The correct answer is Shiny Abraham Wilson.

Key Points

• In 1992, Shiny Wilson became the first woman to carry India's flag at the opening ceremony of the Summer Olympic Games.

• She has been a National Champion in 800 meters.

• She represented India more than 75 times in international competitions.

• She collected a total of 18 gold and two silver medals from the seven South Asian Federation (SAF).

Additional Information

• Karnam Malleswari

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• In 1994, she received the Arjuna Award and in 1999, she received the Rajiv Gandhi Khel Ratna award, India's highest sporting honor, and the civilian Padma Shri award.

• She is the first Indian woman to win a medal at the Olympics in 2000.

Q79. Answer: (a) Spleen

The correct answer is Spleen.

Key Points

• Spleen

• The spleen is the largest organ of the lymphatic system.

• It keeps all the body fluids balanced.

• It is made up of red pulp tissue that filters the old and damaged red blood cells, whereas, the white pulp tissue consists of the B and T cells that help to fight infections.

• The spleen is a bean-shaped organ that stores erythrocytes, lymphocytes, and phagocytes.

• The spleen recycles the old and damaged red blood cells and the white blood cells are stored.

• It also helps to fight against bacteria that cause diseases such as meningitis and pneumonia.

Additional Information

• Tonsil

• Tonsils are the two lymph nodes located on each side of the back of your throat.

• They function as a defence mechanism and help prevent your body from getting an infection.

• When it becomes infected, the condition is called tonsilitis.

• Thymus

• The thymus gland is a very unique organ that is at its largest in children and shrinks away as the body grows older.

• It is about 2.5 to 5 cm wide, 4 to 6 cm long, and 1cm thick at birth.

• Lymph node

• A lymph node, or lymph gland, is a kidney-shaped organ of the lymphatic system, and the adaptive immune system.

• A large number of lymph nodes are linked throughout the body by the lymphatic vessels.

Q80. Answer: (a) Venturimeter

The correct answer is Venturimeter.

Key Points

• Venturimeter

• Venturimeter is a type of flowmeter that works on the principle of Bernoulli's Equation.

• A venturi meter is a device used for measuring the rate of flow of fluid of a liquid flowing through a pipe

• The venturi meter always have a smaller convergent portion and a larger divergent portion

• The size of the venturi meter is specified by its pipe diameter as well as throat diameter.

Additional Information

• Cryometer

• A Cryometer is a thermometer used to measure very low temperatures of objects.

• It can be used down to measure about 1 K temperature.

• Odometer

• An odometer is an instrument used for measuring the distance traveled by a vehicle,

Q81. Answer: (a) Anshu Malik

The correct answer is Anshu Malik.

Key Points

• Anshu Malik

• Anshu Malik is an Indian freestyle wrestler.

• She won the silver medal in the women's 57 kg event at the 2021 World Wrestling Championship held in Oslo, Norway.

• She is the first Indian wrestler to win a silver medal at the World Championships.

Additional Information

• Aisuluu Tynybekova

• She is a Kyrgyzstani freestyle wrestler.

• She won the silver medal in the women's 62 kg event at the 2020 Summer Olympics held in Tokyo, Japan.

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• She also competed in the women's 63kg event at the 2012 Summer Olympics, the first woman to wrestle for Kyrgyzstan in the Olympics.
• Veronika Chumikova
• She is a Russian freestyle wrestler of Chuvash heritage.
• She is a silver medalist at the European Wrestling Championships.
• She also won a medal at the Golden Grand Prix Ivan Yarygin held in Krasnoyarsk.

Q82. Answer: (c) Tennis

The correct answer is Tennis.

Key Points

• Sebastian Korda
• He is an American professional tennis player.
• He has won one ATP singles tournament, the 2021 Emilia-Romagna Open.
• He also won the junior title at the 2018 Australian Open.

Q83. Answer: (a) A tax levied on the lands over and above the original rent

The correct answer is A tax levied on the lands over and above the original rent.

Key Points

• Abwab
• In Mughal India, all temporary and circumstantial taxes and impositions levied by the government over and above regular taxes were called Abwabs.
• All irregular impositions on RAIYATS above the established assessment of land in the PARGANA.
• Land tax was established by Todar Mal after a field-to-survey.
• During the nawab period, a variety of abwabs were imposed on ZAMINDARS, who conveniently transferred them onto their raiyats.
• The practice of collecting abwabs began to decline from the 1920s.

Q84. Answer: (a) Photo editor

The correct answer is a Photo editor.

Key Points

• GNU Image Manipulation Program (GIMP)
• It is a free and open-source raster graphics editor.
• It is used for image manipulation and image editing, free-form drawing, transcoding between different image file formats, and more specialized tasks.
• It can be used as a simple paint program, an expert quality photo retouching program, an online batch processing system, a mass production image renderer, an image format converter, etc.

Additional Information

• Operating system
• An operating system is a software program required to manage and operate a computing device like smartphones, tablets, computers, supercomputers, etc.
• It is a layer of the graphical user interface, which acts as a platform between the user and the computer hardware.
• Diagnostic utility program
• A diagnostic program is a software tool used to diagnose problems with a particular set of hardware devices.
• It can be used by a trained technician or by the owner of the device, to identify and resolve hardware issues.

Q85. Answer: (c) four

The correct answer is Four.

Key Points

• Malabar exercise is a naval exercise which is being conducted between
• Malabar exercise is a naval exercise which is being conducted between India,USA, Japan, Australia.
• 2020 Malabar exercise was conducted in the Arabian Sea and Bay of Bengal in two phases.
• The 24th edition of the MALABAR maritime exercise, hosted by the Indian Navy (IN) in two phases, concluded in the Arabian Sea on 20 Nov 20.
• Phase 1 of the exercise involving participation by the Indian Navy (IN), United States Navy (USN), Japan Maritime Self Defense Force (JMSDF), and Royal Australian Navy (RAN), was conducted off Visakhapatnam in the Bay of Bengal from 3-6 November

2020.

• The second phase was conducted in the Arabian Sea from 17-20 November 2020.

• Indian Navy's participation in Phase 2 was led by Rear Admiral Krishna Swaminathan, Flag Officer Commanding Western Fleet, and included

• Aircraft carrier Vikramaditya

• Indigenous destroyers Kolkata and Chennai

• Stealth frigate Talwar

• Fleet Support Ship Deepak

• Indigenously built submarine Khanderi

• P8I and IL-38 maritime reconnaissance aircraft.

Q86. Answer: (b) Uttarakhand

The correct answer is Uttarakhand.

Key Points

• In a bid to conserve pollinators, India's first 'Pollinator Park' opened in Uttarakhand's Haldwani (Nanital district) on 29 December 2020 and is spread over 4 acres of land.

• The park has been developed by the Research Wing of Uttarakhand's Forest Department.

• The Pollinator Park was inaugurated by lepidopterist Peter Smetacek.

• The park is home to around 40 different types of pollinator species which includes various species of honeybees, birds, and butterflies.

• Uttarakhand

• Capital: Dehradun (winter), Gairsain(summer)

• Chief Minister: Pushkar Singh Dhami

• Governor: Gurmit Singh

• National Park: Jim Corbett National Park, Nanda Devi National Park, Rajaji National Park, Valleys of Flowers National Park, Gangotri National Park

• State Animal: Alpine Musk Deer

• State Bird: Himalayan Monal

• State Tree: Buransh

• State Flower: Brahma Kamal

Additional Information

State	Capital	Chief Minister	Governor
Assam	Dispur	Himanta Biswa Sarma	Jagdish Mukhi
Kerala	Thiruvananthapuram	Pinarayi Vijayan	Arif Mohammad Khan
Odisha	Bhubaneswar	Naveen Patnaik	Ganeshi Lal

Q87. Answer: (a) None of the card users will have an option to opt-in or opt-out of services on their credit/debit cards.

The correct answer is None of the card users will have an option to opt-in or opt-out of services on their credit/debit cards.

Key Points

• With the rise in banking fraud cases, the Reserve Bank of India has issued new guidelines to secure debit and credit cards.

• The changes were effected from 1st October 2020.

• RBI has issued new rules for debit and credit cards to improve the security and convenience of card transactions.

• According to the new guidelines, card users will now be able to register preferences for international transaction, online transactions as well as contactless card transactions debit and credit cards issued by banks will only be enabled for domestic transactions at ATMs and point of sale terminals.

• Customers can set a maximum amount for each Standing Instructions.

Additional Information

• Reserve Bank of India

• It was established on 1 April 1935 in accordance with the provisions of the Reserve Bank of India Act, 1935.

• It was set up on the basis of the recommendations of the Hilton Young Commission.

• The head office was initially established in Calcutta but was permanently moved to Mumbai in 1937.

• It was initially set up as a private entity in 1935, but it was nationalized in 1949.

• It is the central bank of India which regulates the monetary market in India.
• First Governor: Sir Osborne Smith
• First Indian Governor: C.D. Deshmukh
• Current Governor: Shaktikanta Das

Q88. Answer: (c) Inceptisols

The correct answer is Inceptisols.

Key Points

• Inceptisols
• Inceptisols are soils of relatively new origin and are characterized by having only the weakest appearance of horizons, or layers, produced by soil-forming factors.
• They are the most abundant on Earth, occupying almost 22 per cent of all nonpolar continental land areas.
• They are usually arable with appropriate control of erosion or drainage.
• Inceptisol soil profiles give some indication of clay minerals, metal oxides, or humus accumulating in layers, but such accumulation is not sufficient to classify the soil into an order defined by characteristic surface or subsurface horizons.

Additional Information

• Alfisols
• The Alfisols are soils characterized by a clay-rich horizon produced by illuviation and high base status.
• They are moderately leached soils that have relatively high native fertility.
• Alfisols are primarily found in temperate humid and subhumid regions of the world.
• Aridisols
• Aridisols are CaCO3 containing soils of arid regions that exhibit subsurface horizon development.
• They are being dry most of the year and limited leaching.
• Aridisols contain subsurface horizons in which clays, calcium carbonate, silica, salts and or gypsum have accumulated.
• Mollisols
• Mollisols are the soils of grassland ecosystems.
• They are characterized by a thick, dark surface horizon.
• This fertile surface horizon, known as a mollic epipedon, results from the long-term addition of organic materials derived from plant roots.

Q89. Answer: (a) Taramira

The correct answer is Taramira.

Key Points

• Taramira oil, commonly known as Jamba oil.
• Taramira oil is a seed oil, pressed from the seeds of the arugula.
• The plant of Tamaria oilseed is highly drought-resistant, the oil is popular in regions of poor rainfall, particularly in West Asia, Pakistan, and Northern India.
• Taramira seeds are oilseeds and are mostly used in cattle feed.
• It is also used in hair oil and skincare products.

Q90. Answer: (a) Makar Sankranti

The correct answer is Makar Sankranti.

Key Points

• Makar Sankranti:
• It is celebrated in January every year and marks the end of the Winter season and the beginning of a new harvest season.
• The festival is dedicated to Lord Sun.
• On this day, the sun enters the zodiac sign of Capricorn or Makar which marks the end of winter months and the beginning of longer days.
• In different parts of the country, Makar Sankranti is celebrated by different names:
• Lohri: Celebrated in Haryana and Punjab one day before Makar Sankranti.
• Khichdi: Celebrated in Bihar and Uttar Pradesh.
• Pongal: Tamil Nadu
• Kite Festival: Gujarat.

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Q91. Answer: (a) spider

The correct answer is Spider.

Key PointsSpider

• A spider is a software program that travels the web, locating and indexing websites for search engines.

• All the major search engines, such as Google and Yahoo!, use spiders to build and update their indexes.

• These programs constantly browse the Web, traveling from one hyperlink to another.

Additional InformationBug

• A software bug is an error, flaw, or fault in a computer program or system that causes it to produce an incorrect or unexpected result, or to behave in unintended ways.

• Bugs can trigger errors that may have ripple effects.

• Bugs may have subtle effects or cause the program to crash or freeze the computer.

Q92. Answer: (b) southern

The correct answer is southern.

Key Points

• The Chalukya dynasty was established by Pulakeshin I in 543.

• Pulakeshin I took Vatapi (modern Badami in Bagalkot district, Karnataka) under his control and made it his capital.

• Pulakeshin I and his descendants are referred to as "Chalukyas of Badami".

• They ruled over an empire that comprised the entire state of Karnataka and most of Andhra Pradesh in the Deccan.

• The earliest dynasty, known as the "Badami Chalukyas", ruled from Vatapi (modern Badami) from the middle of the 6th century.

Q93. Answer: (d) Cosmology

The correct answer is Cosmology.

Key Points

• Cosmology is the scientific study of the large-scale properties of the universe as a whole.

• It endeavors to use the scientific method to understand the origin, evolution, and ultimate fate of the entire universe.

• Edwin Powell Hubble was an American observational cosmologist and father of modern cosmology.

Additional Information

• Desmology

• It is a subdivision of anatomy that focuses on the study of ligaments.

• Acarology

• Acarology is concerned with the study of mites and ticks.

• It is a subfield of arachnology, a subdiscipline of the field of zoology.

Q94. Answer: (a) jharkhand

The correct answer is Jharkhand.

Key Points

• Economic Survey 2019-20

• The theme of Economic Survey 2020 is “Enable markets, promote ‘pro-business policies and strengthen ‘trust’ in the economy”.

• Pro-business policies increase competition, correct market failures, or enforce business accountability, pro-crony policies hurt markets.

• The Economic Survey 2019-20 was tabled in the Parliament by Finance Minister Nirmala Sitharaman recognised entrepreneurship as a significant tool for wealth creation and productivity growth in the country.

• The data revealed that the impact of new firm entry is the greatest in the manufacturing and services sector.

• It strengthened the visible hand of the market.

• The taxes paid by the entrepreneurs enable Government spending on creating public goods and providing welfare benefits.

• Entrepreneurship acts as the engine of economic growth and change in India.

• Proximity to large population centres likely allows the startup to expand markets and scale operations.

Q95. Answer: (d) Shashi Tharoor

The correct answer is Shashi Tharoor.

Key Points

• Shashi Tharoor

• Shashi Tharoor is an Indian former international diplomat, politician, writer.

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• He was formerly Under-Secretary-General of the United Nations and contested for the post of Secretary-General in 2006.

• He also serves as Chairman of the Parliamentary Standing Committee on Information Technology and All Indian Professionals Congress.

• He received the Sahitya Academy Award for his book An Era of Darkness in a non-fiction category in the English language.

• He is also the author of hundreds of columns and articles in publications such as The New York Times, The Washington Post, Time, Newsweek, and The Times of India.

Additional Information

• Khushwant Singh

• He was an Indian author, lawyer, diplomat, journalist and politician.

• Singh was a self-proclaimed agnostic.

• He was particularly against organised religion.

• His experience in the 1947 Partition of India inspired him to write Train to Pakistan in 1956 which became his most well-known novel.

• Vikram Seth

• He is an Indian novelist and poet.

• He has written several novels and poetry books.

• He has received many awards such as Padma Shri, Sahitya Academy Award, Pravasi Bharatiya Samman, WH Smith Literary Award and Crossword Book Award.

• Rohinton Mistry

• He is an Indian born Canadian writer.

• He has been the recipient of many awards including the Neustadt International Prize for Literature in 2012.

• In 2002, Mistry cancelled his United States book tour for his novel Family Matters after he and his wife were targeted by security agents at every airport.

Q96. Answer: (a) Riva Ganguly Das

The correct answer is Riva Ganguly Das.

Key Points

• Riva Ganguly Das is an Indian diplomat who belongs to the Indian Foreign Service.

• She is the former High Commissioner of India to Bangladesh and former Director-General of the Indian Council for Cultural Relations.

• Bangladesh

• Capital: Dhaka

• Currency: Taka

• Prime Minister: Sheikh Hasina

• President: Abdul Hamid

Additional Information

• Current High Commissioner of India to Bangladesh: Vikram Doraiswami.

• Current High Commissioner of Bangladesh to India: Muhammad Imran.

Q97. Answer: (b) Rajasthan

The correct answer is Rajasthan.

Key Points

• Sambhar Lake is India’s largest inland salt lake.

• It is located in the Nagaur and Jaipur districts of Rajasthan.

• It is surrounded on all sides by the Aravali hills.

• It is the source of most of Rajasthan's salt production.

• It has been designated as a Ramsar site.

Additional Information

• Chilika Lake is the largest saline water lake in India.

• Vembanad Lake is the longest lake in India.

• Cholamu Lake is the highest lake in India.

• Wular Lake is the largest freshwater lake in India.

• Rajasthan

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• Capital: Jaipur
• National Park: Darrah National Park, Desert National Park, Keoladeo National Park, Ranthambore National Park
• State Animal: Camel and Chinkara
• State Bird: Godawan
• State Tree: Khejri tree
• State Flower: Rohida

Q98. Answer: (a) Pola festival

The correct answer is Pola Festival.

Key Points

• Pola is a festival of the state of Maharashtra and Chhattisgarh.
• It is celebrated by the farmers by the worship of the bull.
• The farmers decorate their bulls and on this day and then worship them to perform in the festival.
• This festival is celebrated to show their gratitude towards the bulls for their assistance in the agricultural works by the farmers.
• From the following day of the festival, the plowing activities are started and seeds are sown in the fields.

Q99. Answer: (b) Leh

The correct answer is Leh.

Key Points

• The Union Territory of Ladakh has got the largest solar power project set up under the Centre's 'Make in India' initiative at Leh IAF station to provide sustainable energy alternatives to fossil fuel and traditional methods of energy generation.
• The project namely 'Provision of Solar Photo Voltaic Powerplant 1.5 MW had been completed within 12 months well before the completion deadline of March 31, 2021.
• The project worth Rs 122 crore was inaugurated by Air Marshal VR Chaudhari, Commander-in-Chief, Western Air Command.

Q100. Answer: (a) Article 361

The correct answer is Article 361.

Key Points

• According to Article 361, the President, or the Governor or Rajpramukh of a State, shall not be answerable to any court for the exercise and performance of the powers and duties of his office or for any act done or purporting to be done by him in the exercise and performance of those powers and duties.
• Article 361, which comes under Part 19 of the Indian constitution.
• No criminal proceedings whatsoever shall be instituted or continued against the President, or the Governor of a State, in any court during his term of office.
• No process for the arrest or imprisonment of the President, or the Governor of a State, shall issue from any court during his term of office.

Additional Information

• Article 352 of the Indian Constitution gives the right to the Central government/ president to declare a national emergency if there is a threat to the security of India or any part thereof, any of the following three conditions are present: War. External aggression.
• A Proclamation issued under clause (I) may be or revoked by a subsequent proclamation.

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