SSC CHSL Previous Paper 43 (Held On: 22 March 2018 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Constituet
(b) Iliterrate
(c) Conctituet
(d) Constitute

Q2. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

The smoke rises and

A- chokes my apartment

B- gets trapped in the

C- tree-tops and

(a) BAC
(b) ACB
(c) BCA
(d) ABC

Q3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'.

You (will being surprised) to learn that some leading philosophers have supported immoral views.

(a) will be surprised
(b) will be surprise
(c) will be surprising
(d) no improvement

Q4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'.

I (had been) a unique case of slow learning.

(a) has been
(b) am been
(c) had being
(d) no improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A person or thing that is a perfect example of a particular quality or type

(a) Epitome
(b) Abase
(c) Libertine

(d) Profligate

Q6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Relating to or involved in crime

(a) Chaste
(b) Impeccant
(c) Licit
(d) Felonious

Q7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Under the weather

(a) Become a bit unpredictable like the weather.
(b) Slightly unwell or in low spirits.
(c) Feel optimistic simply because the weather is good.
(d) Feel depressed because you expect bad weather.

Q8. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Come to terms with something

(a) To become friends with your opponents.
(b) Accept that you are a loser even though you have potential.
(c) Become unnecessarily depressed.
(d) To gradually accept a sad situation.

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

People are now either exposed to the very best of their inner circle and the world, _____to the worst — articles that look to shock, to provoke rage and put a lens on everything that is wrong _____ the world. Imperceptibly, it goes unsaid that often _____ pieces of ‘news’ fail to actually provide a constructive solution. The effect of such a disparity_____ to the same effect as news of TV and newspapers — a feeling that what we see does not _____ our lives.

Q9. we see does not _____ our lives.

(a) reflects
(b) reflective
(c) reflection
(d) reflect

Q10. such a disparity _____ to the same effect

(a) leads
(b) led
(c) leading
(d) leaded

Q11. unsaid that often _____ pieces of ‘news’

(a) this
(b) that
(c) the
(d) these

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Q12. that is wrong _____ the world.

(a) at
(b) to
(c) with
(d) into

Q13. and the world, _____ to the worst

(a) nor
(b) or
(c) and
(d) but

Q14. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Maintenance
(b) Maintainence
(c) Maintanance
(d) Mainteinance

Q15. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

The Queen was deeply affected, and said to the old woman, “What can I do for you?”

(a) The Queen asked the old woman if she could do something for her.
(b) The Queen was deeply affected and asked the old woman what she could do for her.
(c) The Queen was deeply affected so she asked the old woman what her majesty could do for her.
(d) The Queen asked the old woman if she could help her as she was deeply affected.

Q16. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

She handed him a bag.

(a) A bag was hand to him.
(b) A bag is handed by her.
(c) A bag handed to him by her.
(d) A bag was handed to him by her.

Q17. Rearrange the parts of the sentence in the correct order.

The orbital motion

P: of the earth

Q: uncertain rates

R: can have

(a) QPR
(b) QRP
(c) RQP
(d) PRQ

Q18. In the following question, out of the given four alternatives, select the one which is opposite in the meaning of the given word.

Cozen

(a) Cheat
(b) Catch
(c) Burn
(d) Honest

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Q19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Secede

(a) Quit
(b) Resign
(c) Withdraw
(d) Unite

Q20. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Jubilant

(a) Happy
(b) Aggressive
(c) Ancient
(d) Defeat

Q21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Reprove

(a) Praise
(b) Laud
(c) Scold
(d) Commend

Q22. In the following question, the sentence is given with blanks to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

We can never compare the importance _____ money with the importance of love.

(a) for
(b) with
(c) of
(d) about

Q23. Directions: In the following items, a sentence is given with a blank space that is required to be filled with a phrasal verb. Select the most appropriate response from the options provided.

Sapna _____ with all of the chocolates.

(a) have ran
(b) has been running
(c) has run off
(d) was run off

Q24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Experts have predict that (A)/ within ten years ethanol will emerge (B)/ as the primary automatic fuel in the world. (C)/ No error (D)

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

Q25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

She has a (1)/ kind eyes (2)/ with a beautiful face. (3)/ No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

Q26. In the following question, select the related word pair from the given alternatives.

River : Krishna : : ? : ?

(a) Planet : Sun
(b) Mountain : K2
(c) Moon : Satellite
(d) Earth : Grass

Q27. In the following question, select the related letter pair from the given alternatives.

APX : BQY : : ? : ?

(a) JRA : KTB
(b) JLM : KMP
(c) CSN : DTO
(d) AXP : BZR

Q28. In the following question, select the odd word pair from the given alternatives.

(a) Badminton net - Badminton
(b) Gloves - Boxing
(c) Chessboard - Chess
(d) Cricket Ball - Cricket

Q29. In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the

(a) 13 - 14
(b) 15 - 16
(c) 24 - 25
(d) 19 - 21

Q30. In the following question, select the odd letter/letters from the given alternatives.

(a) GMS
(b) KQW
(c) JPV
(d) NTY

Q31. Arrange the given words in the sequence in which they occur in the dictionary.

1. Throttle
2. Tight
3. Time
4. Tier
5. Thrust

(a) 12435
(b) 54123
(c) 15423
(d) 25413

Q32. In the following question, select the missing number from the given series.

964, ?, 241, 120.5, 60.25

(a) 482
(b) 384

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(c) 396
(d) 424

Q33. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

D, I, N, S, ?

(a) Z
(b) V
(c) W
(d) X

Q34. Ganga leaves from her college at 10:00 a.m. She starts walking towards north and covers a distance of 14 km. She turns right and walks 20 km to reach point K. She turns left and walk 16 km. She again turns left and walks 10 km. How far (in km) and in which direction is she now from point K?

(a) 3√33, North-West
(b) 2√89, North-West
(c) 3√33, North-East
(d) 2√89, North-East

Q35. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Countermand

(a) Dam
(b) Term
(c) Rout
(d) Main

Q36. In a certain code language, “NOTES” is written as “141520519” and “MAKAR” is written as “13111118”. How is “LOFTS” written in that code language?

(a) 206191316
(b) 121562019
(c) 12150219
(d) 1515121119

Q37. In a certain code language, 'x' represents '+', '÷' represents 'x', '-' represents '÷' and '+' represents '-'. Find out the answer to the following question.

18 x 12 ÷ 5 - 10 + 10 = ?

(a) 14
(b) 6
(c) 39
(d) 2

Q38. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

10 + 14 x 20 - 7 ÷ 10 = 40

(a) • and x
(b) • and ÷
(c) ÷ and -
(d) • and +

Q39. If 12@18 = -3, 18@6 = 6 and 16@8 = 4, then find the value of 6@10 = ?

(a) -10
(b) 8
(c) 4
(d) -2

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Q40. Which of the following terms follows the trend of the given series?

XYXYXYZZ, XYXYXZZY, XYXYZZXY, XYXZZYXY, XYZZXYXY, _____.

(a) XZZYXYXY
(b) ZZXYXYXY
(c) XYXYXYZZ
(d) XYXYXZZY

Q41. Two lady cyclists A and B start from the same point. A cycles 3.5 km West, then turns to her right and cycles 7 km. B cycles 1 km East, then turns North and cycles 7 km, then turns to her left and cycles 2 km. Where is B with respect to A now?

(a) 5.5 km, East
(b) 2.5 km, West
(c) 2.5 km, East
(d) 5.5 km, West

Q42. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All napkins are towels

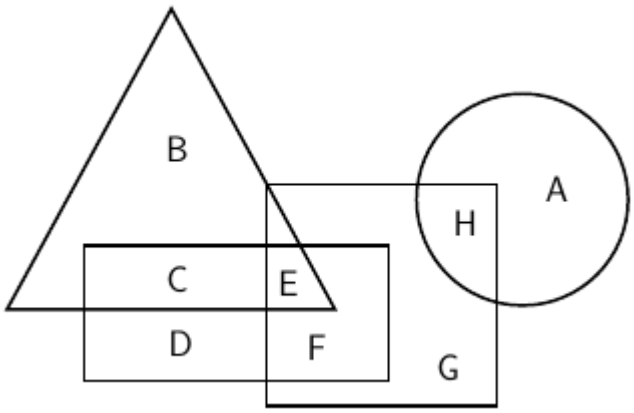
Statement II: All rags are napkins

Conclusion I: Some towels are rags

Conclusion II: All rags are towels

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

Q43. In the following figure, rectangle represents Pharmacists, circle represents Lyricists, triangle represents Cooks and square represents Fathers. Which set of letters represents Pharmacists who are either Fathers or Cooks?



(a) EFG
(b) E
(c) IEF
(d) CEF

Q44. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

DEW, ZAS, VWO, RSK, ?

(a) MPH
(b) NOG
(c) LME
(d) PQI

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Q45. In the following question, select the missing number from the given series.

1, 3, 5, 7, ?

(a) 9
(b) 13
(c) 10
(d) 12

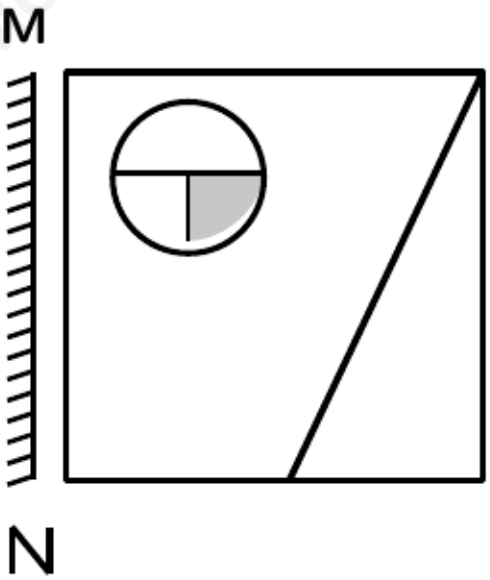
Q46. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (31, 34, 37)
(b) (43, 45, 48)
(c) (39, 42, 45)
(d) (7, 10, 13)

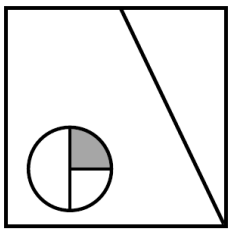
Q47. Which type of institution is the Finance Commission?

(a) Statutory institution
(b) Constitutional institution
(c) Non-constitutional institution
(d) Non Statutory institution

Q48. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given figure?

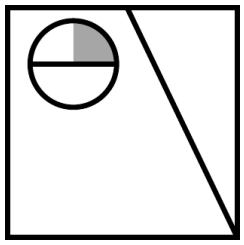


(a)

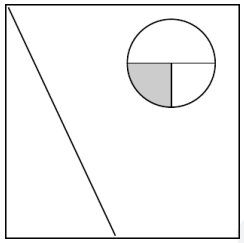


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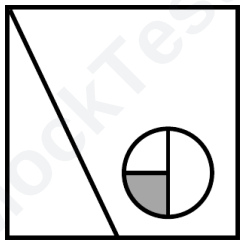
(b)



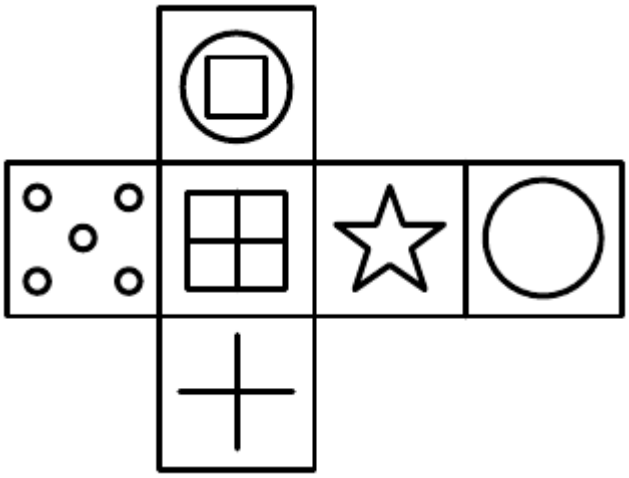
(c)



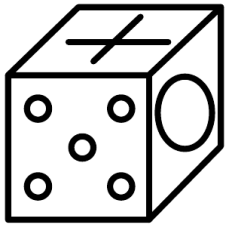
(d)



Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

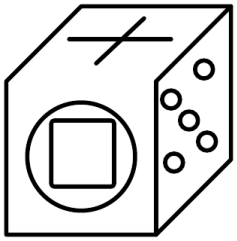


(a)

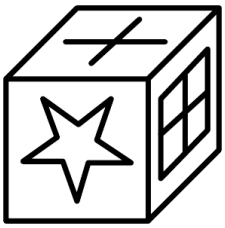


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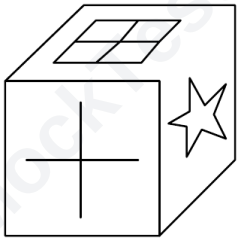
(b)



(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example ‘A’ can be represented by 31, 43 etc and ‘U’ can be represented by 85, 96 etc. Similarly, you have to identify the set for the word ‘SINE’

Matrix-I		**Matrix-II**										
	0	1	2	3	4			5	6	7	8	9
0	A	I	L	L	K		5	S	O	T	R	Z
1	I	F	B	A	F		6	R	S	Q	N	Q
2	M	F	H	E	D		7	P	S	U	V	Y
3	B	A	L	G	F		8	U	Z	X	O	N
4	D	G	C	A	K		9	Q	U	Y	W	P

(a) 21, 99, 31, 85
(b) 12, 87, 11, 78
(c) 31, 65, 14, 76
(d) 76, 10, 68, 23

QUANTITATIVE APTITUDE

Q51. Find the square root of 1471369.

(a) 1213
(b) 1223
(c) 1203
(d) 1233

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Q52. Calculate the total numbers of prime factors in the expression $(9)^{11} \times (5)^{7} \times (7)^{5} \times (3)^{2} \times (17)^{2}$

(a) 35
(b) 36
(c) 37
(d) 38

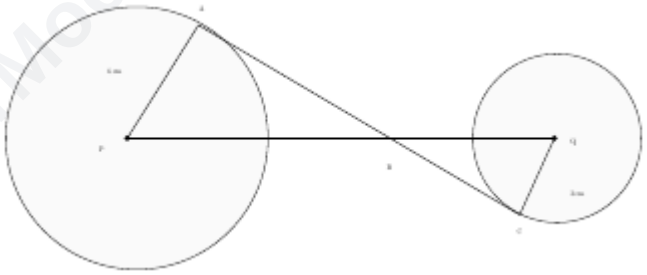
Q53. Find the y-intercept of the line joining two points (1, 3) and (3, 5).

(a) -2
(b) 0
(c) 2
(d) 4

Q54. The two equations are 4x + 4ky - 6 = 0 and x + 6y - 12 = 0. Find the value of k for the pair of two linear equations represents the parallel lines.

(a) 2
(b) 6
(c) 8
(d) 10

Q55. Two circles have radii 6 cm and 3 cm and are centered at the point P and Q, respectively. A transverse common tangent AC to both circles cuts the line joining P and Q at a point B such that AB = 8 cm. Find the length (in cm) of PQ.



(a) 5
(b) 10
(c) 15
(d) 20

Q56. The circle of radius 4 cm and centre O has a tangent PR. If angle POR = 90° and OR = 7 cm and OP = 24 cm. Calculate the length (in cm) of PR.

(a) 20
(b) 24
(c) 25
(d) 35

Q57. In an election between two candidates, the winning candidate got 70% of the valid votes and won by a majority of 9000 votes. If out of total votes polled 90% votes are valid, then what is the total number of votes polled?

(a) 30000
(b) 25000
(c) 22500
(d) 27000

Q58. If (3/2)X = (5/7)Y = (6/5)Z, then what is X : Y : Z

(a) 105 : 50 : 84
(b) 24 : 25 : 32
(c) 15 : 21 : 25
(d) 20 : 42 : 25

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Q59. 7 litres mixture of milk and water contains 30% water. 3.5 litres of milk is added to this mixture. What is the percentage of water in the new mixture?

(a) 10
(b) 15
(c) 20
(d) 25

Q60. If the average of 31, x, 42, 39, 56, 78, 83 and 91 is 58.5, then what is the value of x?

(a) 26
(b) 35
(c) 58
(d) 48

Q61. The difference between simple interest on a certain sum at the rate of 6% per annum for 5 years and 6 years is 25.8. What is the sum (in Rs)?

(a) 480
(b) 430
(c) 258
(d) 516

Q62. The ratio of the cost price and selling price of a shirt is 32 : 37. What is the profit percentage?

(a) 15.63
(b) 13.51
(c) 17.21
(d) 14.44

Q63. A shopkeeper offers the following 3 schemes. Which scheme has the lowest discount percentage (all articles have same marked price)?

I. Two successive discounts of 10% and 10%

II. Buy 7 get 8

III. Buy 9 get 1 free

(a) Only II
(b) Only III
(c) Only II and III
(d) All are equal.

Q64. If $x = (\sqrt{2} + 1)/(\sqrt{2} - 1)$ and $y = (\sqrt{2} - 1)/(\sqrt{2} + 1)$, then what is the value of $x + y$?

(a) 6
(b) $\sqrt{2}$
(c) 3
(d) $3\sqrt{2}$

Q65. X can complete 5/7 part of a work in 10 days and Y can complete 3/4 part of the same work in 9 days. In how many days will both complete 13/21 part of the total work

(a) 6
(b) 4
(c) 3
(d) 12

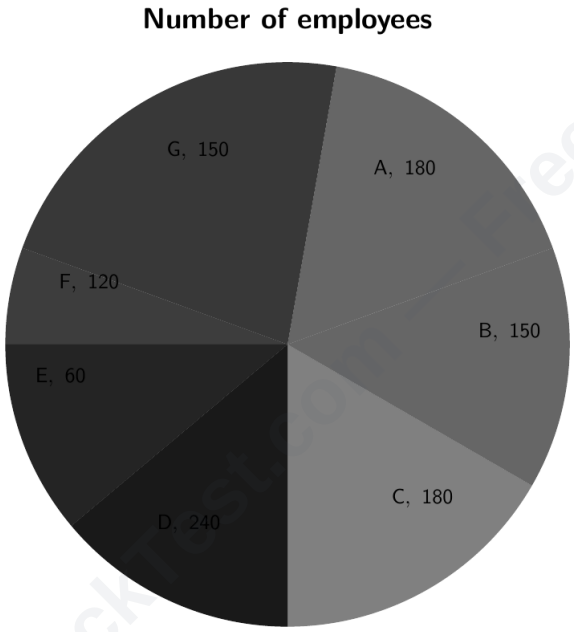
Q66. A train starts from a place A at 8 : 00 a.m. and arrives at another place B at 1 : 30 p.m. on the same day. If the speed of the train is 30 km/hr, then what will be the distance (in km) covered by the train?

(a) 165
(b) 175
(c) 150
(d) 135

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Directions

Direction: The HR department of a company prepared a report. The pie chart represents all the employees of the company and to which state they belong to. Study the diagram and answer the following questions.



Q67. The least number of employees are from which state?

(a) F
(b) G
(c) A
(d) E

Q68. What is the total number of employees of the company?

(a) 1020
(b) 960
(c) 1080
(d) 920

Q69. The measure of the central angle of the sector representing state B is _____ degrees.

(a) 80
(b) 60
(c) 75
(d) 50

Q70. If the average monthly salary of the employees of C company is Rs 25,000 then what is the total of the salaries (in Rs lakhs) paid to all the employees of this company?

(a) 27
(b) 45
(c) 36
(d) 360

Q71. The side of an equilateral triangle is 10 cm. Find its area (in cm^2).

(a) $25\sqrt{3}$
(b) $36\sqrt{3}$
(c) $25\sqrt{2}$
(d) $36\sqrt{2}$

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Q72. If the measure of the interior angle of a regular polygon is 108° then how many sides does it have?

(a) 6
(b) 8
(c) 9
(d) 5

Q73. The curved surface area and the diameter of a right circular cylinder are 660 cm² and 21 cm respectively. Find its height (in cm).

(a) 9
(b) 10
(c) 12
(d) 8

Q74. What is the value of (1/√3 + cos60°) ?

(a) (2 + 2√3)/√3
(b) (2 + √3)/2√3
(c) 7/3
(d) (√2 + 1)/√2

Q75. ΔABC is right angled at B. If cosA = 8/17, then what is the value of cotC ?

(a) 15/8
(b) 15/17
(c) 8/17
(d) 17/15

GENERAL AWARENESS

Q76. An increase in money supply will cause interest rates to _____.

(a) Rise.
(b) Fall
(c) Remain unchanged.
(d) No option is correct.

Q77. For which one of the following items Tiruppur is well known as a huge exporter to many parts of the world?

(a) Gems and Jewellery
(b) Leather Goods
(c) Knitted garments
(d) Handicrafts

Q78. What is measured with the Nephometer?

(a) Volume of rainfall
(b) Cloud volume and speed
(c) Salinity of Sea
(d) All options are correct.

Q79. The 'Loktak Lake' is located in which of the following states of India?

(a) Meghalaya
(b) Manipur
(c) Mizoram
(d) Tripura

Q80. During whose reign did Timur invaded India?

(a) Allauddin Khilji
(b) Bahlol Lodi
(c) Firoz Tughlaq

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(d) Nasiruddin Mahmud Shah

Q81. Which of the following movements was headed by Sitaram Raju?

(a) Kuka Movement
(b) Rampa Movement
(c) Pabna Agitation
(d) Bardoli Satyagraha

Q82. In which city is India's oldest European church?

(a) Kochi
(b) Goa
(c) Chennai
(d) Kolkata

Q83. Which country has started the world's first carbon capture plant in October 2017?

(a) China
(b) Italy
(c) Japan
(d) Iceland

Q84. Which of the following is the recipient of V Shantaram Lifetime Achievement Award at the Mumbai International Film Festival (MIFF) in 2018?

(a) Dharmendra
(b) Mahesh Bhatt
(c) Shyam Benegal
(d) Gulzar

Q85. The national temple of Bangladesh is _____.

(a) Jagannath Temple, Pabna
(b) Boro Kali Bari Temple, Mymensingh
(c) Dhakeshwari Temple, Dhaka
(d) Sugandha Shaktipeeth, Barisal

Q86. Which of the following group is NOT Dobereiner triads?

(a) Li, Na, K
(b) N, P, Au
(c) Cl, Br, I
(d) Ca, Sr, Ba

Q87. Which of the following is a metal?

(a) Sulphur
(b) Nitrogen
(c) Oxygen
(d) No option is correct.

Q88. Which Schedule of Indian Constitution has provisions relating to disqualification of Member of Parliament on the ground of defection?

(a) Seventh Schedule
(b) Eighth Schedule
(c) Ninth Schedule
(d) Tenth Schedule

Q89. Election of the President of India and its manner can be amended by _____.

(a) Simple Majority of Parliament
(b) Special Majority of Parliament
(c) Special Majority of Parliament and consent of States

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(d) No option is correct.

Q90. Yeast and mushrooms are the organisms of which kingdom?

(a) Fungi
(b) Monera
(c) Plantae
(d) Protista

Q91. In October 2017, which two ministries jointly launched ‘SAATHI’ (Sustainable and Accelerated Adoption of efficient Textile technologies to help small Industries) initiative?

(a) Commerce and Textile Ministries
(b) Power and Textile ministries
(c) Finance and Textile ministries
(d) No option is correct.

Q92. What is the name of the event caused by the 3200 Phaethon asteroid around 15 December of every year?

(a) Geminid Meteor display
(b) Perseid Meteor display
(c) Draconid Meteor display
(d) Lyrid Meteor display

Q93. On January 3, 2018, RBI initiated ‘PCA’ against the Allahabad Bank. How many public sector banks have been covered under ‘PCA’?

(a) 18
(b) 17
(c) 11
(d) 15

Q94. The Cabinet Committee on Economic Affairs (CCEA) has approved the expansion of "Beti Bachao Beti Padhao" yojana for a pan India coverage from 2017- 2018 to _____.

(a) 2018-2019
(b) 2019-2020
(c) 2020-2021
(d) 2021-2022

Q95. On January 16, 2018, the Supreme Court ruled the attacks and interference on adults opting for inter-caste marriage as ‘absolutely illegal’ in the petition filed by which NGO in 2010?

(a) PRATHAM
(b) Shakti Vahini
(c) Goonj
(d) Sammaan

Q96. Due to an acceleration of 1 m/s2 the velocity of a body increases from 5 m/s to 10 m/s in a certain period. Find the displacement (in m) of the body in that period.

(a) 125
(b) 37.5
(c) 62.5
(d) 75

Q97. As an object falls freely its_____.

(a) Kinetic energy gets converted into potential energy
(b) Potential energy gets converted into kinetic energy
(c) Momentum gets converted into gravitational force
(d) Gravitational force gets converted into momentum

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Q98. Methane contributes towards global warming so it is called a _____ gas.

(a) poisonous
(b) carcinogenic
(c) infectious
(d) greenhouse

Q99. Which of the statements given below are correct?

A) In 2017 Pro Kabaddi League, Sandeep Narwal played for Bengaluru Bulls.
B) In 2017, Dani Pedrosa raced in MotoGP for Honda.
C) In 2017, Glenn Maxwell captained the IPL team Kolkata Knight Riders.

(a) Only B
(b) Both A and B
(c) Both A and C
(d) A, B and C

Q100. In Microsoft Excel, Ctrl+ down arrow key leads to _____ cell movement on spreadsheet.

(a) End of column
(b) End of row
(c) One cell Left
(d) One cell right

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) Constitute

The correct answer is- 'Constitute'

Key Points

• 'Constitute' is a 'verb' and it means 'to be one of the parts that form something.'

• Example: Women constitute a high proportion of part-time workers.

Here, the correct spelling is- Constitute

Q2. Answer: (c) BCA

The correct answer is- 'BCA'

Key Points

• In the started sentence 'The smoke rises and' it is ended with the verb 'rises' and the conjunction is using 'and' so that 'verb' will come but in the sentence, C- 'tree-tops and' is not started with the verb so it can be easily eliminated here.

• And B part 'gets trapped in the' is suitable according to the context of the paragraph.

• The paragraph does not end with an article 'the' or conjunction 'and'. So, options 1, 2 & 4 are eliminated.

Thus, option 3 is the correct answer.

Q3. Answer: (a) will be surprised

The correct answer is- 'will be surprised'

Key Points

• Using 'will be surprised' in place of 'will being surprised' to make the sentence correct.

• We know that 'will' is a helping verb that takes the first form of the verb(V1) after it.

• 'Be' is the base form of the verb and when the verb 'be' is used it is followed by V3

The correct sentence is- You will be surprised to learn that some leading philosophers have supported immoral views.

Q4. Answer: (d) no improvement

The correct answer is- 'No improvement'

Key Points

• There is no improvement is required in the given sentence in the question.

• In the first option, we know that 'has' never be used with 'I', we use 'have' with it.

• In the second option, 'am' is a helping verb of continuous tense so that need to put V1+ing after it.

• In the third option, 'had' is a helping verb of the perfect tense so that need to put V3 after it.

• Clearly, we can say there is no need for improvement in this sentence.

The correct sentence is- I had been a unique case of slow learning.

Q5. Answer: (a) Epitome

The correct answer is- 'Epitome'

Key Points

• 'Epitome' is a noun and it means 'a perfect example of something.'

• Example: Her clothes are the epitome of good taste.

Hence the option 1 is the most appropriate answer here.

WORDS	MEANING
Abase*(verb)*	behave in a way that belittles or degrades someone.
Libertine*(noun)*	a person, especially a man, who freely involves in sensual pleasures without regard to moral principles.
Profligate*(adjective)*	recklessly extravagant or wasteful in the use of resources.

Q6. Answer: (d) Felonious

The correct answer is- 'Felonious'

Key Points

• 'Felonious' is an adjective and it means 'relating to or involved in crime.'

• Example: They turned their felonious talents to the smuggling trade

Hence option 4 is the most appropriate answer here.

WORDS	MEANING
Chaste*(adjective)*	abstaining/refraining from extramarital, or from all, sexual intercourse; virgin; unmarried.
Impeccant*(adjective)*	free from error or fault; sinless.
Licit*(adjective)*	not forbidden; lawful.

Q7. Answer: (b) Slightly unwell or in low spirits.

The correct answer is- 'Slightly unwell or in low spirits.'

Key Points

• 'Under the weather' is an idiom and it means 'If someone is or feels under the weather, they feel ill.'

• Example: She was sufficiently under the weather to have to pull out of the competition.

Hence option 2 is the most appropriate answer here.

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Q8. Answer: (d) To gradually accept a sad situation.

The correct answer is- 'To gradually accept a sad situation.'

Key Points

• 'Come to terms with something' is an idiom and it means 'to learn to understand and accept something.'

• Example: He made little effort to come to terms with his critics.

Hence option 4 is the most appropriate answer here.

Q9. Answer: (d) reflect

The correct answer is- 'reflect'

`

Key Points

• Here, verbs should be used, and do/does takes Verb in verb 1st form.

Hence, reflect is the most appropriate answer.

Q10. Answer: (a) leads

The correct answer is- 'leads'

Key Points

• 'disparity' is a singular noun and it means 'a great difference' So, according to subject-verb agreement, a singular verb should come with a singular subject.

Thus, leads is the most appropriate answer here.

Additional Information

• We don't use 'led' because the passage is in the present tense.

Q11. Answer: (d) these

The correct answer is- 'these'

Key Points

• Here, the correct determiner is to be used. 'Pieces of news' is a plural noun, hence plural determiner 'these' should be used.

Thus, option 4 is the most appropriate here.

Additional Information

• We do not use the article 'the' here because already subject news is defined earlier in the passage, so we need to point this further.

Q12. Answer: (c) with

The correct answer is- 'with'

Key Points

• The context explains that news articles are creating violence and they do not show the reality which is wrong with the people around the world.

• Let's find out the uses of the following prepositions:-

• At- to show age, exact time, temporary mood.

• To- for the destination.

• With- in relation to.

• Into- when there is a change in form or motion.

• Clearly, the preposition 'with' gives an appropriate meaning.

Thus, option 3 is the most appropriate answer here.

Q13. Answer: (b) or

The correct answer is- 'or'

Key Points

• On looking at the above-given passage, we observe that it is based on how articles or news are shown to create violence in society and does not show what is actually going on around the world.

• The first blank is related to the paired conjunction (either.....or). Since 'either' is already given, thus it should be followed by 'or'.

Thus, option 2 is the correct answer.

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Q14. Answer: (a) Maintenance

The correct answer is- 'Maintenance'

Key Points

• 'Maintenance' is a noun and it means 'keeping something in good condition.'

• Example: This house needs a lot of maintenance.

Here, the correct spelling is- Maintenance

Additional Information

• The synonyms of Maintenance are- 'fix, reparation, upkeep, service'.

• The antonyms of Maintenance are- 'unchain, unwire, unstable, unpin'.

Q15. Answer: (b) The Queen was deeply affected and asked the old woman what she could do for her.

The correct answer is- 'The Queen was deeply affected and asked the old woman what she could do for her.'

Key Points

• In the question, direct speech is given and we need to change into indirect speech. Since a question is asked in inverted commas that too is in the present form of the modal verb.

• So, change 'can' into a past form that is 'could'.

• When a question is represented with wh-word, so conjunction 'if/whether' is not used.

Hence, option 2 is the most appropriate answer here.

Additional Information

• Word 'majesty' is not given in direct speech. So, there is no need of adding it in indirect speech.

Q16. Answer: (d) A bag was handed to him by her.

The correct answer is- 'A bag was handed to him by her.'

Key Points

• In the given question the sentence 'She handed him a bag.' is in 'Active voice' which is in the past indefinite and we know that after converted this sentence into 'Passive voice' the tense will same which also should in past indefinite.

• Past indefinite:

• Sub + V2 + object (Active)

• Object + was/were + V3 + by + subject (Passive)

• Example:

• Reema cleaned the floor (Active)

• The floor was cleaned by Reema (Passive)

Hence the correct answer is- A bag was handed to him by her.

Q17. Answer: (d) PRQ

The correct answer is- 'PRQ'

Key Points

• Clearly, In the started sentence 'The orbital motion' ends with a noun, and 'Q' starts with the noun too so the answer can't be started from 'Q'.

• So that, options 1 & 2 are eliminated and option 3 shows that there are uncertain rates of earth, but the rate of something is related to some object/person activity, not to itself. Hence, option 3 is also incorrect.

Thus, option 4 is the correct sequence here.

Q18. Answer: (d) Honest

The correct answer is- 'Honest'

Key Points

• 'Cozen' is a verb and it means 'trick or deceives.' and the opposite word of 'Cozen' is 'Honest'.

• Example: he was able to cozen a profit

Hence the correct opposite word is Honest.

WORDS	MEANING
Cheat*(verb)*	act dishonestly or unfairly in order to gain an advantage, especially in a game or examination.

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Catch*(verb)*	intercept and hold (something which has been thrown, propelled, or dropped).
Burn*(verb)*	(of a fire) produce flames and heat while consuming a material such as coal or wood.

Q19. Answer: (d) Unite

The correct answer is- 'Unite'

Key Points

• 'Secede' is a verb and it means 'withdraw formally from membership of a federal union, an alliance, or a political or religious organization.' and the opposite word of 'Secede' is 'Unite'.

• Example: The kingdom of Belgium seceded from the Netherlands in 1830.

Hence the correct opposite word is Unite.

WORDS	MEANING
Quit*(verb)*	leave (a place), usually permanently.
Resign*(verb)*	voluntarily leave a job or other position.
Withdraw*(verb)*	remove or take away (something) from a particular place or position.

Q20. Answer: (a) Happy

The correct answer is- 'Happy'

Key Points

• 'Jubilant' is an adjective and it means 'feeling or expressing great happiness and triumph' so that the similar word of 'Jubilant' is 'Happy'.

• Example: a large number of jubilant fans ran on to the pitch

Hence the correct similar word is Happy.

WORDS	MEANING
Aggressive*(adjective)*	ready or likely to attack or confront; characterized by or resulting from aggression.
Ancient*(adjective)*	belonging to the very distant past and no longer in existence.
Defeat*(verb)*	win a victory over (someone) in a battle or other contest; overcome or beat.

Q21. Answer: (c) Scold

The correct answer is- 'Scold'

Key Points

• 'Reprove' is a verb and it means 'to criticize somebody or not approve of something that somebody has done' so the similar word of 'Reprove' is 'Scold'.

• Example: He was reproved for obscenity.

Hence the correct similar word is Scold.

WORDS	MEANING
Praise*(verb)*	express warm approval or admiration of.
Laud*(verb)*	praise (a person or their achievements) highly, especially in a public context.
Commend*(verb)*	praise formally or officially.

Q22. Answer: (c) of

The correct answer is- 'of'

Key Points

• Using the preposition 'of' in the black space of the given sentence will make a meaningful sentence.

• We know that importance will take the preposition 'of' (of - expressing the relationship between a part and a whole.) after it. It is a kind of a fixed proposition here.

• Example: I always dreamed of being famous.

Hence the correct sentence is- We can never compare the importance of money with the importance of love.

Additional Information

• Let's find the uses of the following prepositions:-

• For- period of something; related to a reason.

• With- indicating responsibility.

• About- on the subject of; concerning.

Q23. Answer: (c) has run off

The correct answer is- 'has run off'

Key Points

• Using 'has run-off' in the blank space of the sentence will make a meaningful sentence.

• 'run-off' is a phrasal verb here and it means 'leave a place or situation suddenly.'

• Example: He ran off to join Napoleon's army and never returned.

Hence option 3 is the most appropriate answer here.

Q24. Answer: (a) A

The correct answer is- 'error lies in the part-A'

Key Points

• Using 'predicted' in place of 'predict' to make the sentence correct.

• We know that 'have, has, had' are the helping verbs of perfect tense and they always take the third form of the verb(V3).

• Structure of Present Perfect: Sub + has/have + V3 + object

• Example: Ram has gone to market.

The correct sentence is- Experts have predicted that within ten years ethanol will emerge as the primary automatic fuel in the world.

Q25. Answer: (a) 1

The correct answer is- 'error lies in the part-1'

Key Points

• Remove the article 'a' from the first part to make the sentence correct.

• We know that articles are used to define a noun. But, kind is an adjective here so we can't use an article before it.

The correct sentence is- She has kind eyes with a beautiful face.

Q26. Answer: (b) Mountain : K2

The logic used here,

River: Krishna → Krishna is a river.

Let's check each option,

1) Planet: Sun → Sun is not a planet.

2) Mountain: K2 → K2 is a mountain.

3) Moon: Satellite → Satellite is not a moon.

4) Earth: Grass → Grass is not an Earth.

Here, we can see that Option 2 satisfy the logic.

Hence, the correct answer is " Mountain: K2 ".

Q27. Answer: (c) CSN : DTO

The logic followed here is:

Similarly,

Hence, the correct answer is " CSN: DTO ".

Q28. Answer: (b) Gloves - Boxing

The logic used here,

Option No	Equipment	Sports

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1	Badminton Net	Badminton
2	Gloves	Boxing
3	Chessboard	Chess
4	Cricket Ball	Cricket

→ 'Boxing Gloves' is used in Boxing. No specification about the type of gloves is given and Gloves (normal gloves) are not used in Boxing.

Hence, the correct answer is " Gloves - Boxing ".

Q29. Answer: (d) 19 - 21

The logic followed here,

→ Second Number = (First Number + 1)

Let's check each option as per the logic,

1) (13 - 14)

→ 14 = (13 + 1)

2) (15 - 16)

→ 16 = (15 + 1)

3) (24 - 25)

→ 25 = (24 + 1)

4) (19 - 21)

→ 21 ≠ (19 + 1)

Here, we can see that Only option 4 doesn't satisfy the logic.

Hence, the correct answer is " 19 - 21 ".

Q30. Answer: (d) NTY

The pattern followed here is:-

As can be seen clearly, 'NTY' does not follows the same pattern as other three options.

Hence, the correct answer is "NTY".

Q31. Answer: (c) 15423

Given:

1. Throttle 2. Tight 3. Time 4. Tier 5. Thrust

According to the sequence in the English dictionary:

The correct order of the given words is:

1. Throttle

5. Thrust

4. Tier

2. Tight

3. Time

Hence, the correct answer is " 15423 ".

Q32. Answer: (a) 482

The logic followed here is:

→ The terms are divided by 2 to get the next term of the series.

Hence, the correct answer is " 482 ".

Q33. Answer: (d) X

The pattern followed here is:-

Hence, the correct answer is "X".

Q34. Answer: (b) 2√89, North-West

Distance = $\sqrt{(10^2 + 16^2)}$ km → $2\sqrt{(89)}$ km

Hence, answer is 2√89, North-West.

Q35. Answer: (d) Main

Main cannot be formed using 'Countermand' because there is no 'i' in it.

Hence, the answer is 'Main'.

Q36. Answer: (b) 121562019

The logic/rule followed here is:

Alphabets are replaced by their respective positional values.

Letter	N	O	T	E	S
Code (Positional Value)	14	15	20	5	19

Letter	M	A	K	A	R
Code (Positional Value)	13	1	11	1	18

Letter	L	O	F	T	S
Code (Positional Value)	12	15	6	20	19

Therefore, LOFTS is written as '121562019' in that code language.

Q37. Answer: (a) 14

Symbol	•	•	×	÷
Meaning	•	÷	•	×

Given equation: 18 x 12 ÷ 5 - 10 + 10 =?

On replacing the symbols:

18 + 12 × 5 ÷ 10 - 10 =?

→ 18 + 6 - 10

→ 24 - 10

→ 14

Hence, the answer is " 14 ".

Q38. Answer: (c) ÷ and -

Given equation:

10 + 14 × 20 - 7 ÷ 10 = 40

Let's check each option,

1) + and ×

→ 10 × 14 + 20 - 7 ÷ 10 = 40

→ 160 - 7 ÷ 10 = 40

→ 159.3 ≠ 40

→ LHS ≠ RHS.

2) + and ÷

→ 10 ÷ 14 × 20 - 7 + 10 = 40.

→ 100 ÷ 7 - 7 + 10 = 40.

→ 100 ÷ 7 + 3 = 40.

→ 17.2 ≠ 40

→ LHS ≠ RHS.

3) ÷ and -

→ 10 + 14 × 20 ÷ 7 - 10 = 40.

→ 10 + 40 - 10 = 40.

→ 40 = 40.

→ LHS = RHS.

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4) - and +

→ 10 - 14 × 20 + 7 ÷ 10 = 40

→ 10 - 280 + 7 ÷ 10 = 40

→ - 270 + 7 ÷ 10 = 40

→ - 269.3 ≠ 40.

→ LHS ≠ RHS.

Here, we can see that Only option 3 satisfy the equation.

Hence, the correct answer is " ÷ and - ".

Q39. Answer: (d) -2

The logic/rule followed here is:

12@18 = -3 → (12 - 18) ÷ 2 = -3

18@6 = 6 → (18 - 6) ÷ 2 = 6

16@8 = 4 → (16 - 8) ÷ 2 = 4

Similarly,

6@10 → (6 - 10) ÷ 2 = -2

Hence, the correct answer is " -2 ".

Q40. Answer: (a) XZZYXYXY

The logic used here,

→ The pair of Z is moving one place to its left in the subsequent terms.

X	Y	X	Y	X	Y	Z	Z
X	Y	X	Y	X	Z	Z	Y
X	Y	X	Y	Z	Z	X	Y
X	Y	X	Z	Z	Y	X	Y
X	Y	Z	Z	X	Y	X	Y
X	Z	Z	Y	X	Y	X	Y

Hence, the answer is " XZZYXYXY ".

Q41. Answer: (c) 2.5 km, East

According to the given information,

1) A cycles 3.5 km west.

2) Then turns to her right and cycles 7 km.

3) B cycles 1 km East.

4) Then turns North and cycles 7 km, then turns to her left and cycles 2 km.

Combining the distance and turns of both cyclists A and B, we get:

Here, we can see that B is 2.5 km in the East direction of A.

Hence, the correct answer is " 2.5 km East ".

Q42. Answer: (c) Both conclusions I and II follow

Conclusion I: Some towels are rags → True (As All napkins are towels and All rags are napkins)

Conclusion II: All rags are towels → True (As All napkins are towels and All rags are napkins)

Hence, the correct answer is " Both conclusions I and II follow ".

Q43. Answer: (d) CEF

In the given figure,

rectangle represents Pharmacists i.e. C, D, E and F

circle represents Lyricists i.e. A and H

triangle represents Cooks i.e. B, C, I and E

square represents Fathers i.e., E, F, G, H and I

So, CEF letters represents Pharmacists who are either Fathers or Cooks.

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Hence, the correct answer is " CEF ".

Q44. Answer: (b) NOG

The pattern followed here is:-

Hence, the correct answer is "NOG".

Q45. Answer: (a) 9

The pattern followed here is:-

Hence, the correct answer is "9".

Q46. Answer: (b) (43, 45, 48)

The logic followed here is:

Second Number = (First Number + 3).

Third Number = (Second Number + 3).

Let's check each option as per the logic,

1) (31, 34, 37)

→ 34 = (31 + 3)

→ 37 = (34 + 3)

2) (43, 45, 48)

→ 45 ≠ (43 + 3) → Doesn't satisfy the logic.

→ 48 = (45 + 3)

3) (39, 42, 45)

→ 42 = (39 + 3)

→ 45 = (42 + 3)

4) (7, 10, 13)

→ 10 = (7 + 3)

→ 13 = (10 + 3)

Here, we can see that only Option 2 doesn't satisfy the logic.

Hence, the correct answer is " (43, 45, 48) ".

Q47. Answer: (b) Constitutional institution

The correct answer is Constitutional institution.

Key Points

• The Finance Commission is constituted as a constitutional body under "Article 280".

• It is constituted by the President of India. The Finance Commission in India is constituted under the Finance Commission Act 1951.

• It is a quasi-judicial institution and has a term of 5 years.

• The central government appointed N.K. Singh, a former member of the Planning Commission, as the chairman of the 15th Finance Commission on 27 November 2017.

• The Finance Commission sets the rules for grant money to the states from the Center.

• In Article 243 (I) and 243 (Y) of the Constitution of India, the State Finance Commissions are constituted every five years according to the constitution.

Additional Information

• The first was the Finance Commission chaired by K. C. Niyogi (1952–1957).

• 13th Finance Commission headed by Dr. Vijay L. Kelkar (2010–2015).

• The 14th Finance Commission was headed by the former Governor of Reserve Bank of India Mr. Y.V. Reddy did.

Q48. Answer: (c) [figure]

Hence, the correct answer is " Option 3 ".

Q49. Answer: (b) [figure]

When the unfolded cube is folded, the pair of opposite sides are,

<=>

<=>

<=>

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Now, let's check each option,

1)

→ Can be made.

2)

→ Cannot be made because

and

should be the opposite sides.

3)

→ Can be made.

4)

→ Can be made.

Here, we can see that Only Cube in option 2 cannot be formed.

Hence, the correct answer is " Option 2 ".

Q50. Answer: (d) 76, 10, 68, 23

The pattern followed here is:-

A letter is represented first by its row number of the matrix then by its column number of the matrix.

1) In 21,99,31,85

21 → F; 99 → P; 31 → A; 85 → U (So, the word formed is 'FPAU')

2) In 12,87,11,78

12 → B; 87 → X; 11 → F; 78 → V (So, the word formed is 'BXFV')

3) In 31,65,14,76

31 → A; 65 → R; 14 → F; 76 → S (So, the word formed is 'ARFS')

4) In 76,10,68,23

76 → S; 10 → I; 68 → N; 23 → E (So, the word formed is 'SINE')

Hence, the correct answer is "76,10,68,23".

Q51. Answer: (a) 1213

Calculation:

Here we use elimination method for finding the square root of 1471369

The unit digit of no. 1471369 is 9

We have 4 options 1213, 1223, 1203 and 1233

We get unit digit 9 when we square a no. that is end with 3 or 7

Now we take the square of 1210 that is > 1203 and < 1213

=> $(1210)^2 = 1464100$

This value 1464100 < 1471369 so 1203 is eliminated

Now we take the square of 1220 that is > 1213 and < 1223

=> $(1220)^2 = 1488400$

Therefore This value 1488400 > 1471369 so we can say that 1471369 is square of 1213

Q52. Answer: (d) 38

Concept used:

Total number of prime factors of (x)^a × (Y)^b × (Z)^c is (a + b + c) where X, Y, Z are prime numbers

Calculation:

$(9)^{11} \times (5)^7 \times (7)^5 \times (3)^2 \times (17)^2$

=> $(3^2)^{11} \times (5)^7 \times (7)^5 \times (3)^2 \times (17)^2$

=> (3)^((22 + 2)) × (5)^7 × (7)^5× (17)² = (3)^(24) × (5)^7 × (7)^5× (17)²

Therefore Total number of prime factors = sum of the powers of the expression = 24 + 7 + 5 + 2 = 38

Q53. Answer: (c) 2

Concept used:

• If Y intercepts then X = 0 [equation of Y axis is X = 0]

• The equation of the line joining the two points (X1, Y1) and (X2, Y2) is (Y - Y1)/(Y2 - Y1) = (X - X1)/(X2 - X1)

Calculation:
Points given (X1, Y1) and (X2, Y2) = (1, 3) and (3, 5)
=> Y - Y1 = (Y2 - Y1)/(X2 - X1)(X - X1)
=> Y - 3 = (5 - 3) / (3 - 1) × (0 - 1)
=> Y - 3 = - 1
=> Y = 3 - 1
=> Y = 2
Therefore The correct answer is 2

Q54. Answer: (b) 6

Concept used:
If two lines a1x + b1y + c1 = 0 and a2x + b2y + c2 = 0 are parallel then a1/a2 = b1/b2 ≠ c1/c2
Calculation:
Equation of 1^(st) line 4x + 4ky - 6 = 0
Compare the eq. with a1x + b1y + c1 = 0
=> a1 = 4, b1 = 4k, c1 = - 6
m1 = - a1/b1 = - 4/4k = - 1/k
Equation of 2^(nd) line x + 6y - 12 = 0
Compare the eq. with a2x + b2y + c2 = 0
=> a2 = 1, b2 = 6, c2 = - 12
m2 = - a2/b2 = - 1/6
Condition for parallel lines is m1 = m2
=> - 1/k = - 1/6
=> k = 6
Therefore The value of k is 6

Q55. Answer: (c) 15

In ΔPAB,
$PB^2 = AB^2 + AP^2$
$PB^2 = 8^2 + 6^2 = 64 + 36 = 100$
=> PB = 10 cm
ΔPAB and ΔBQC are similar triangle.
So, AB/BC = AP/QC
=> 8/BC = 6/3
=> BC = 4 cm
In ΔBQC,
$BQ^2 = BC^2 + QC^2$
=> $BQ^2 = 4^2 + 3^2 = 25$
=> BQ = 5 cm
Therefore PQ = PB + BQ = 10 + 5 = 15 cm

Q56. Answer: (c) 25

Concept used:
According to Pythagoras theorem,
$Hypotenuse^2 = Perpendicular^2 + Base^2$
Calculation:
In triangle POR, $PR^2 = OP^2 + OR^2$
=> $PR^2 = 24^2 + 7^2 = 576 + 49 = 625$
Therefore PR = 25 cm

Q57. Answer: (b) 25000

Calculation:
Valid votes of winning candidate = 70%

Valid votes of losing candidate = 30%
Difference of valid votes of winning and losing candidates = 70% - 30% = 40%
=> 40% = 9000
=> 10% = 2250
=> 100% = 22500 = total valid votes
Therefore Total no. of votes polled = 22500 × 100/90 = 25000

Q58. Answer: (d) 20 : 42 : 25

Given:
(3/2) X = (5/7) Y = (6/5) Z
Calculation:
Divide the above eq. by the Lcm of their numerators
Lcm of their numerators = Lcm of (3, 5, 6) = 30
Divide the eq. by 30.
=> 3/(2 × 30)X = 5/(7 × 30)Y = 6/(5 × 30)Z
=> X/20 = Y/42 = Z/25
Therefore X : Y : Z = 20 : 42 : 25

Q59. Answer: (c) 20

Calculation:
Quantity of water in the mixture = 30% of 7 litres = 2.1 litre
Quantity of milk in the mixture = 7 - 2.1 = 4.9 litres
New quantity of milk in the mixture after adding 3.5 litres of milk = 4.9 + 3.5 = 8.4 litres
Quantity of New mixture = 8.4 + 2.1 = 10.5 litres
Therefore Percentage of water in new mixture = 2.1/10.5 × 100 = 20%

Q60. Answer: (d) 48

Concept used:
Average = (Sum of the no.) / (Quantity of no.)
Calculation:
=> 58.5 = (31 + x + 42 + 39 + 56 + 78 + 83 + 91) /8
=> 58.5 × 8 = 420 + x
=> 468 = 420 + x
Therefore x = 468 - 420 = 48

Q61. Answer: (b) 430

Concept used:
Simple Interest. = (P × R × (T2 - T1))/100
Where, P = principal, R = rate and T1, T2 are time
Calculation:
S.I. = (P × R × (T2 - T1))/100
=> 25.8 = (P × 6 × (6 - 5))/100
=> 25.8 = (P × 6 × 1)/100
Therefore P = (25.8 × 100)/6 = 430

Q62. Answer: (a) 15.63

Ratio of cost price and selling price = 32 : 37
Therefore Profit % = (37 - 32) /32 × 100 = 5/32 × 100 = 15.625 = 15.63%

Q63. Answer: (b) Only III

Solution:
Let the market price of the article is Rs. 100
Case I: Discount % = 10 + 10 - (10 × 10) /100 = 20 - 1 = 19%
Case II: Discount % = (Free item / total item)× 100

= 1/8 × 100 =12.5%

Case III: Discount % = (Free item / total item)× 100

= 1/10 × 100 = 10%

Hence, Case III scheme has the lowest discount percentage

Q64. Answer: (a) 6

Given:

x = (√2 + 1)/(√2 – 1)

y = (√2 – 1)/(√2 + 1)

Formula Used:

(x + y)2 = x2 + 2xy + y2,

(x – y)2 = x2 – 2xy + y2

(x + y) × (x – y) = $x^2 – y^2$

Calculation:

x + y = [(√2 + 1)/(√2 – 1)] + [(√2 – 1)/(√2 + 1)]

=> [$(√2 + 1)^2$ + $(√2 – 1)^2$]/(√2 – 1) × (√2 + 1)

=> [2 + 1 + 2√2 + 2 + 1 – 2√2]/(2 – 1)

=> 6

Therefore The value of x + y is 6.

Q65. Answer: (b) 4

Given:

X can complete 5/7 part of a work in 10 days.

Y can complete 3/4 part of the same work in 9 days.

Concept:-

Basic time and work concept.

Calculation:-

Time taken by X to complete 5/7 part of a work = 10 days

Time taken by X to complete the whole work = 10 × 7/5

=> 14 days

Time taken by Y to complete 3/4 part of a work = 9 days

Time taken by Y to complete the whole work = 9 × 4/3

=> 12 days

Total work = LCM of (12 and 14)

=> 84 units

Efficiency of X = 84/12

=> 7 units/day

Efficiency of Y = 84/14

=> 6 units/day

Efficiency of X + Y together = 7 + 6

=> 13 units/day

Total time taken by X + Y together to complete 13/21 part of the work = 84 × 13/21 × 1/13

=> 4 days

Therefore In 4 days will both complete 13/21 part of the total work.

Q66. Answer: (a) 165

Calculation:

Time taken by train to reach B from A = 51/2 = 11/2 hours

Distance travelled by the train = Speed × Time

Therefore Distance travelled by the train = 30 × 11/2 = 165 km

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Q67. Answer: (d) E

As shown in the pie chart, the value of E is 60 lakhs which is least

Therefore Answer is E

Q68. Answer: (c) 1080

Total number of employees = Employees of states (A + B + C + D + E + F + G)

Total number of employees = 180 + 150 + 180 + 240 + 60 + 120 + 150

Therefore Total number of employees = 1080

Q69. Answer: (d) 50

Total employees = 1080

Employees from state B = 150

Therefore The central angle of the sector representing state B = 150/1080 × 360 = 50°

Q70. Answer: (b) 45

The average monthly salary = Rs 25000

Total salary = Average monthly salary × Total no. of employees

Therefore Total salary = 25000 × 180 = 4500000 = 45 lakhs

Q71. Answer: (a) 25√3

Given:

The side of an equilateral triangle is 10 cm

Concept used:

Area of equilateral triangle is √3/4 × a^2, where a is the sides of the triangle

Calculation:

The area of the equilateral triangle is

=> √3/4 × 10^2

=> √3/4 × 100

=> 25√3 cm^2

Therefore The correct answer is 25√3 cm2

Q72. Answer: (d) 5

Concept used:

Let number of sides are N

Interior angle = 180° - (360°)/N

Calculation:

According to the question,

=> 108° = 180° - (360°)/N

=> (360°)/N = 180° - 108° = 72°

=> (360°)/(72°) = N

Therefore N = 5

Q73. Answer: (b) 10

Given:

Diameter of cylinder = 21 cm

Radius of cylinder = 21/2 cm

Concept used:

The curved Surface area of cylinder = 2πrh,

Where r = radius, h = height

Calculation:

According to the question

=> 660 = 2 × 22/7 × 21/2 × h

=> 660 = 66 × h

Therefore h = 10 cm

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Q74. Answer: (b) (2 + √3)/2√3

Concept used:

• cos60° = 1/2

Calculation:

1/√3 + cos60°

=> 1/√3 + 1/2

=> (2 + √3)/(2√3)

Therefore The correct answer is (2 + √3)/(2√3)

Q75. Answer: (a) 15/8

Concept used:

• cos θ = base/hypotenuse

Calculation:

Cos A = 8/17 = AB/AC

=> Cot C = BC/AB =

=> Cot C = √(AC² - AB²)/AB

=> Cot C = √(17² - 8²)/8

=> Cot C = √(289 - 64)/8

=> Cot C = √225/8

=> Cot C = 15/8

Therefore The correct answer is 15/8

Q76. Answer: (b) Fall

With everything else remaining equal, a greater money supply lowers market interest rates. Conversely, less money supply tends to raise market interest rates.

• This is because if money lenders keep the interest rates high, the debtors would go to other money lenders with lower interest rates as there is a large supply of money.

• So, to attract debtors, the money lenders reduce the interest rates.

Q77. Answer: (c) Knitted garments

• is a city in the Kongu Nadu region of the Indian state of Tamil Nadu

• is the fifth largest urban agglomeration and fourth largest city by area in Tamil Nadu.

• is a major textile and knitwear hub contributing to 90% of total cotton knitwear exports from India

• This textile industry provides employment to over six lakh people and contributed to exports worth Rs. 200 billion (US$3.0 billion) in 2014-15

Q78. Answer: (b) Cloud volume and speed

Nephometer:

• An instrument designed to measure the amount of cloudiness

• It consists of a convex hemispherical mirror mapped into six parts.

• the amount of cloud coverage on the mirror is noted by the observer and then cloudiness is measured

Q79. Answer: (b) Manipur

• Loktak Lake is the largest freshwater lake in Northeast India.

• It is famous for the phumdis (heterogeneous mass of vegetation, soil, and organic matter at various stages of decomposition) floating over it.

• It is located near Moirang town in Manipur, India.

Q80. Answer: (d) Nasiruddin Mahmud Shah

The correct answer is Nasiruddin Mahmud Shah.

Key Points

• Timur invaded India in the year 1398.

• Under the reign of 'Tughlaq Sultan Nasiruddin Mahmud Shah'.

• He invaded India to destroy and plunder the massive wealth of India.

• He attacked India to fight a "Holy war" against the infidels.

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• To destroy the temples and the idols and make people believe in Islam.

Q81. Answer: (b) Rampa Movement

The correct answer is Rampa Movement.

Key Points

• The Rampa movement was led by an outsider Alluri Sitarama Raju who is now a folk hero in Andhra Pradesh.

• Rampa is the region in the north of Godavari, which witnessed various uprisings during the nineteenth century.

• In 1916, it saw a revolt which introduced several guerrilla warfare in the region between August 1922 to May 1924.

• They were against the moneylenders and forest laws.

• The immediate spark came when a tahsildar was trying to construct a forest road with unpaid labour.

• Alluri Sitarama Raju was inspired by the Non-cooperation movement and admire Gandhi but he considered violence necessary to win the tribal goals.

• He was captured and killed in May 1924.

Additional Information Other important revolts and their leaders:

Revolts	Led by
Kuka Movement	Baba Balak Singh and Bhagat Jawar (or Jawahar) Mal
Rampa Movement	Alluri Sitarama Raju
Pabna Agitation	Fakir Majnu Shah
Bardoli Satyagraha	Sardar Patel

Q82. Answer: (a) Kochi

The correct answer is Kochi.

Key Points

• India's oldest European church is in Kochi.

• The name of the church is St. Francis Church.

• It was built in 1503.

• It has great historical significance as a mute witness to the European colonial struggle in the subcontinent.

• Vasco da Gama's body was originally buried in this church.

Additional Information

• The Portuguese explorer Vasco da Gama died in Kochi in 1524 when he was on his third visit to India.

• His body was originally buried in Saint Francis Church.

• After 14 years his remains were moved to Lisbon and are now located at Jeronimos Monastery.

• Saint Francis Church, in Fort Kochi (Fort Cochin), Kochi, originally built in 1503, is one of the oldest European churches in India.

Q83. Answer: (d) Iceland

World's First Carbon Capture Plant:

• Country - Iceland; Year-2017 (October)

• Nominated - "Direct air capture"

• There are machines that work like a tree, absorb carbon dioxide (CO_2) out of the air

• Turning thousands of times more carbon and carbon dioxide into stone at the same time

Q84. Answer: (c) Shyam Benegal

The correct answer is Shyam Benegal.

Key Points

• Mumbai International Film Festival (MIFF) committee has decided to bestow V. Shantaram lifetime achievement Award to veteran film producer and director Shyam Benegal.

• He will be awarded a trophy, a cash price of 10 lakh rupees, a certificate and a shawl by Governor of Maharashtra C. Vidyasagar Rao.

• Benegal has been selected for his contribution to the promotion of the documentary movement.

Q85. Answer: (c) Dhakeshwari Temple, Dhaka

The correct answer is Dhakeshwari Temple, Dhaka.

Key Points

• The National Temple of Bangladesh is Dhakeshwari Temple.

• It is located in the capital of Bangladesh, Dhaka.

• Dhakeshwari means "Goddess of Dhaka"

• It was built in the 12^(th) century by Ballal Sen, a king of the Sena dynasty.

Additional Information

• Bangladesh

• Capital: Dhaka

• Currency: Taka

• Prime Minister: Sheikh Hasina

• President: Abdul Hamid

Q86. Answer: (b) N, P, Au

Dobereiner triads:

• The atomic weight of the middle element is nearly the same as the average of the atomic weights of other two elements

• The atomic weight of:

Nitrogen (N) = 14 u

Phosphorus (P) = 30 u

Gold (Au) = 196 u

Hence, (N, P, Au) is not a Dobereiner triad as the atomic weight of Phosphorus (P) is not the average of the atomic weight of Nitrogen (N) and Gold (Au)

Q87. Answer: (d) No option is correct.

The correct answer is No option is correct.

Key Points

• Metal:

• It is a type of solid substance that is usually hard and shiny through which electricity and heat can travel.

• It is a material that when freshly prepared polished or fractured shows a stressful appearance.

• Metal is typically ductile and malleable.

• In metal one molecular strongly associated with another molecule

• Non-Metal:

• A nonmetal is a chemical element that mostly lacks the characteristics of a metal. Those are the elements that form negative ions by accepting or gaining electrons.

• They are not conducting heat and electricity, they are good insulators of heat and electricity.

• They are not ductile.

• All non-metals are placed right side of the periodic table.

• In the extended modern periodic table total of 22 elements are non-metal.

• Graphite is an allotrope of carbon but a good conductor and hence an expectation among non-metals.

• Sulphur, Nitrogen and Oxygen are non metalls.

Additional Information

• Metalloids

• Most of their other physical properties and chemical properties are intermediate in nature.

• Typical metalloids have a metallic appearance.

• They are brittle and only fair conductors of electricity.

• Chemically, they behave mostly as nonmetals.

• They can form alloys with metals.

• They are lustrous in appearance.

• Their oxides are amphoteric or weakly acidic.

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Q88. Answer: (d) Tenth Schedule

The correct answer is Tenth Schedule.

Key Points

• The 52nd Amendment of the Indian Constitution relates to Anti-defection Law.

• The 52nd Amendment Act of 1985 provided for the disqualification of the members of Parliament and the state legislature on the ground of the Deflection of one political party to another.

• The 10th Schedule of the Indian Constitution is designed to prevent political defections prompted by the lure of office, material benefits, or other considerations.

• The Anti-defection law was passed by Parliament in 1985 and was reinforced in 2002.

• The 10th Schedule of the Indian Constitution popularly referred to as the 'Anti-Defection Law' was inserted by the 52nd Amendment (1985) to the Constitution.

• 'Defection' has been defined as per the constitution as, "To abandon a position or association, often to join an opposing group".

• The anti-defection law was enacted to ensure that a party member does not violate the mandate of the party or else on doing so he will lose his membership in the House.

• The law applies to both Parliament and state assemblies.

• The aim of the Anti-Defection Law is to prevent MPs from switching political parties for any personal motive.

Q89. Answer: (c) Special Majority of Parliament and consent of States

The correct answer is Special Majority of Parliament and consent of States.

Key PointsThe election of the President of India and its manner can be amended by:

• Special Majority of Parliament

• It is not a simple majority as it includes a "Single Transferable Vote System".

• Consent of States

• Because there is uniformity in the scale of representation of different states at the election of the president.

• One needs to get more than half of the valid votes to be elected as the president.

Q90. Answer: (a) Fungi

The correct answer is Fungi.

Explanation;

• Fungi are not capable of producing their own food, so they get their nourishment from other sources and appear like plants but are closely related to animals.

• They live everywhere. In water, on land, in the soil, and on or in plants and animals.

• The organisms in the kingdom fungi include mushrooms, yeasts, moulds, rusts, smuts, puffballs, truffles, morels, moulds etc.

Q91. Answer: (b) Power and Textile ministries

SAATHI:

• Launched by "Ministries of Power and Textiles"

• Under this initiative, Energy Efficiency Services Limited (EESL), a public sector entity under the administrative control of Ministry of Power, would procure energy efficient Powerlooms, motors and Rapier kits in bulk and provide them to the small and medium Powerloom units at no upfront cost

• use of these efficient equipments would result in energy savings and cost savings to the unit owner

• a unit owner does not have to allocate additional expenditure for repayment as the repayments to EESL are made from the savings that come as a result of higher efficiency equipments and cost savings.

Q92. Answer: (a) Geminid Meteor display

The correct answer is Geminid Meteor display.

Key Points

• 3200 Phaethon is the name of the asteroid that causes the Geminid meteor shower display around 15 December of every year.

• 3200 Phaethon is an Apollo Asteroid and it is believed that it might have undergone a collision with another object in the distant past to produce the stream of particles that Earth, which we call the meteor shower.

• When it approaches Sun, it sheds a huge amount of rock and dust in its path and Earth happens to pass that path every year between December 4-16.

• The Geminid Meteor display is an annual meteor shower, with peak rates of about 120 per hour caused by the "3200 Phaethon asteroid" around 15 December of every year.

• It is named after the constellation Gemini, the point from which the meteors seem to radiate which was first noted as a minor

meteor shower back in 1862.

Q93. Answer: (c) 11

PCA:

• stands for “Prompt Corrective Action”

• generally restricts lending activities of the banks

• direct banks to disburse loans only to those companies whose borrowing is above investment grades

• 11 public sector banks have been covered under it. For eg: Allahabad Bank, United Bank of India, Corporation Bank, IDBI Bank, UCO Bank, Bank of India, Central Bank of India etc.

Q94. Answer: (b) 2019-2020

The correct answer is 2019-2020.

Key Points

• Beti Bachao, Beti Padhao: (Save girl child, educate a girl child) is a personal campaign of the Government of India.

• It aims to generate awareness and improve the efficiency of welfare services intended for girls.

• Cabinet approves the Expansion of Beti Bachao Beti Padhao for a Pan India coverage in all 640 districts.

• A proposed outlay of Rs.1132.5 Crore and approved for the duration of 2017-18 to 2019-20.

Q95. Answer: (b) Shakti Vahini

The correct answer is Shakti Vahini.

Key Points

• NGO named, Shakti Vahini, filed a petition in 2010 against the attacks and interference on adults opting for inter-caste marriage.

• They asked for a ban on such crimes and on khap panchayats or self-appointed village courts in parts of north India, especially Haryana.

• Supreme Court ruled the attacks and interference in such activities as absolutely illegal in the petition.

Q96. Answer: (b) 37.5

The correct answer is 37.5.

Calculation:

Here,

Initial velocity; u = 5 m/s

Final velocity; v= 10 m/s

Acceleration given; a = 1 m/s^2

Let the displacement be ‘S’

Using the formula;

[$v^2 – u^2 = 2*a*S$]

and putting the values we get, Displacement (S) = 37.5 m

Q97. Answer: (b) Potential energy gets converted into kinetic energy

The correct answer is Potential energy gets converted into kinetic energy.

Explanation:

• When an object (mass m) is at any height (h) from the ground, it attains potential energy (PE) due to the virtue of its position wrt to the ground ie. PE = mgh

• As it falls, the value of h decreases and as a consequence its PE decreases and gets converted into kinetic energy.

• Kinetic energy is the energy which is acquired from the motion of the object and the object is obviously in motion when it falls.

Q98. Answer: (d) greenhouse

Greenhouse gas:

• a gas in an atmosphere that absorbs and emits radiant energy within the thermal infrared range

• the fundamental cause of the greenhouse effect

• For eg: water vapor, carbon dioxide, methane, nitrous oxide, and ozone

Q99. Answer: (a) Only B

• In 2017 Pro Kabaddi League, Sandeep Narwal played for “PuneriPaltan”

• In 2017, “DaniPedrosa” raced in MotoGP for Honda

• In 2017, “Gautam Gambhir” captained the IPL team Kolkata Knight Riders

Q100. Answer: (a) End of column

Shortcut	Leads to
Ctrl+ down arrow key	End of column
Ctrl+ up arrow key	Start of column
Ctrl+ right arrow key	End of row
Ctrl+ left arrow key	Start of row

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