SSC CHSL Previous Paper 25 (Held On: 15 March 2018 Shift 1) (Previous Year Paper)

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

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Practise under exam conditions, then review your answers after you submit.

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ENGLISH LANGUAGE

Q1. 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'.

He fall over the (1)/ ledge after (2)/ drinking heavily last night. (3)/ No error (4)

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

Q2. 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'.

The Maldives has been buffeted by one political crisis after another (1)/ since Nasheed, the first democratically elected president, (2)/ was forcibly to quit in 2012. (3)/ No error (4)

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

Q3. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The path runs _____ forests and mountains.

(a) In
(b) On
(c) To
(d) Towards

Q4. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The worst form of violence is terrorism _____ due to religious insecurities.

(a) Repressed
(b) Quelled
(c) Evoked
(d) Halted

Q5. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Debonair

(a) Elegant
(b) Awkward
(c) Clumsy

(d) Difficult

Q6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Rivet

(a) Heavy
(b) Joyous
(c) Engage
(d) Revolve

Q7. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Evince

(a) Manifest
(b) Conceal
(c) Declare
(d) Prove

Q8. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Candid

(a) Artful
(b) Free
(c) Objective
(d) Plain

Q9. Rearrange the parts of the sentence in correct order.

As a result of greater competition

P: while others are contracting

Q: in the US computer industry

R: some computer companies are expanding

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

Q10. 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.

The teacher told him to collect assignments.

(a) He was told to collect assignments by the teacher.
(b) He is told by the teacher to collect assignments.
(c) The teacher asked him to collect assignments.
(d) He was asked to collect assignments.

Q11. 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.

“I have not seen him for years,” said his mother.

(a) She has not seen him for years said his mother.
(b) His mother had not seen him for years.
(c) His mother told him she had not saw him for years.
(d) His mother said that she had not seen him for years.

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Q12. 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) Qustionnaire
(b) Qustionaire
(c) Questionnaire
(d) Quetionnaire

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.

A century later, the philosophy community needs to take _____ the new challenge of moral deliberation on the most pressing issues of our difficult times. We have to revoke the suspension of ethics and morality _____ our lives by initiating a dialogue on it. Foregrounding ethics, however, _____ means undermining the epistemological or ontological questions that are inevitably there. One such beginning can be made by anchoring moral _____ in fairness and justice —one founded on obligatory fairness towards the people and the planet, towards the earth and the environment, and above all justice towards one _____.

Q13. community needs to take _____ the new challenge

(a) In
(b) Down
(c) Up
(d) Into

Q14. ethics and morality _____ our lives by initiating

(a) Form
(b) Of
(c) For
(d) From

Q15. Foregrounding ethics, however, _____ means undermining

(a) Nor
(b) No
(c) Never
(d) None

Q16. by anchoring moral _____ in fairness

(a) Responsibility
(b) Responsible
(c) Responsibly
(d) Responsory

Q17. and above all justice towards one _____.

(a) Else
(b) All
(c) Everybody
(d) Another

Q18. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Get on somebody's nerves

(a) To calm an anxious person.
(b) To be an irritant.
(c) To crack jokes at somebody's expense.
(d) Be angry with yourself but take out the anger on somebody else.

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Q19. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Eyebrow raising

(a) Pretend to like something or someone even when you dislike.
(b) Look up in defiance as a show of rebellion.
(c) A person finally getting due punishment.
(d) Something which surprises, shocks, or offends people.

Q20. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Showing a lack of respect for people or things that are generally taken seriously

(a) Solemn
(b) Pious
(c) Devout
(d) Irreverent

Q21. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Showing a skilful use of underhand tactics to achieve goals

(a) Scrupulous
(b) Veracious
(c) Authentic
(d) Devious

Q22. 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".

A monthly contribution by the boy's elder brother (have made) this move possible.

(a) Had make
(b) Had made
(c) Had making
(d) No improvement

Q23. 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".

He claimed that he (have corrected) the ringing on both the clocks.

(a) Had correct
(b) Had corrected
(c) Had correcting
(d) No improvement

Q24. 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.

One of them said my

A-teacher was being very

B-strict as she was

C-strict; not all French were as

(a) ABC
(b) CBA
(c) ACB
(d) CAB

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Q25. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Illiterrate
(b) Illiterate
(c) Iliterate
(d) Iliterrate

GENERAL INTELLIGENCE

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

Thursday : Friday :: ? : ?

(a) Monday : Tuesday
(b) Friday : Sunday
(c) Friday : Wednesday
(d) Sunday : Tuesday

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

594 : 592 :: 368 : ?

(a) 370
(b) 340
(c) 364
(d) 366

Q28. In the following question, select the related letter/letters from the given alternatives.

KPV : LQW :: BOY : ?

(a) APX
(b) CPZ
(c) CPX
(d) DQZ

Q29. In the following question, select the odd word from the given alternatives.

(a) Cauliflower
(b) Potato
(c) Grapes
(d) Brinjal

Q30. 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 given alternatives.

(a) 39 – 43
(b) 23 – 27
(c) 31 – 35
(d) 35 – 37

Q31. In the following question, select the odd letter/letters from the given alternatives.

(a) GJMP
(b) HKNR
(c) PSVY
(d) NQTW

Q32. Arrange the given words in the sequence in which they occur in the dictionary.

1. Telephone
2. Teleworker
3. Tendency

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4. Temperature

5. Themselves

(a) 34521
(b) 42153
(c) 52314
(d) 12435

Q33. In the following question, select the missing number from the given series.

4, 5, 8, 9, 12, 13, ?

(a) 14
(b) 16
(c) 15
(d) 20

Q34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

EGL, DFK, CEJ, ?, ACH

(a) BFJ
(b) CFD
(c) HDI
(d) BDI

Q35. Weight of Alok is twice the weight of Karan. Weight of Karan is one-fourth of the weight of Roma. Weight of Roma is twice of the weight of Tipu. Weight of Tipu is twice of the weight of Shivam. The weight of Roma is greater than the weight of how many persons among Alok, Karan, Shivam and Tipu?

(a) 3
(b) 4
(c) 0
(d) 2

Q36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Compatible

(a) Come
(b) Pat
(c) Time
(d) Most

Q37. In a certain code language, “WARD” is written as “44” and “LOAD” is written as “30”. How is “BRIT” written in that code language?

(a) 49
(b) 47
(c) 48
(d) 50

Q38. In a certain code language, '-' represents '×', '÷' represents '+', '+' represents '÷' and '×' represents '-'. Find out the answer to the following question.

12 - 2 + 6 × 20 ÷ 18 = ?

(a) 50
(b) 2
(c) 19
(d) 43

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Q39. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

18 ÷ 2 - 25 × 9 + 6 = 38

(a) • and ×
(b) • and ÷
(c) • and +
(d) ÷ and ×

Q40. If 18α12 = 3, 2α14 = -6 and 4α4 = 0, then find the value of 2α16 = ?

(a) -7
(b) 8
(c) 10
(d) -1

Q41. Which of the following terms follows the trend of the given list?

PQPPPPPQ, PPQPPPPQ, PPPQPPPQ, PPPPQPPQ, PPPPPQPQ, _____.

(a) QPPPPPPQ
(b) PQPPPPPQ
(c) PPQPPPPQ
(d) PPPPPPQQ

Q42. A woman is shopping in a plaza. She walks 80 m South, then she turns East and walks 50 m, then she turns North and walks 110 m, then she turns to her left and walks 50 m. Where is she now with reference to her starting position?

(a) 30 m North
(b) 190 m North
(c) 30 m South
(d) 190 m South

Q43. 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: Some flipflops are slippers

Statement II: Some footwear are flipflops

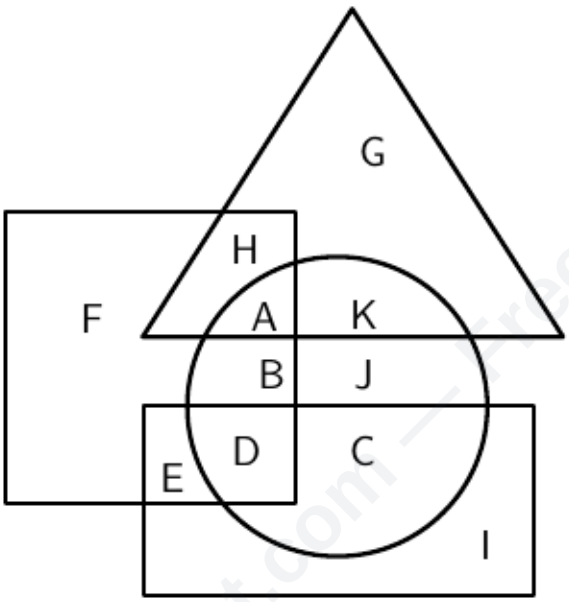
Conclusion I: All slippers are footwear

Conclusion II: All footwear are slippers

(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

Q44. In the following figure, rectangle represents Technicians, circle represents Bakers, triangle represents Playwrights and square represents Gymnastics. Which set of letters represents Technicians who are Bakers?

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(a) BJ
(b) DC
(c) AK
(d) BD

Q45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

HTC, LXG, PBK, TFO, ?

(a) YKR
(b) ZLU
(c) WIR
(d) XJS

Q46. In the following question, select the missing number from the given series.

2, 4, 6, 8, ?, 12

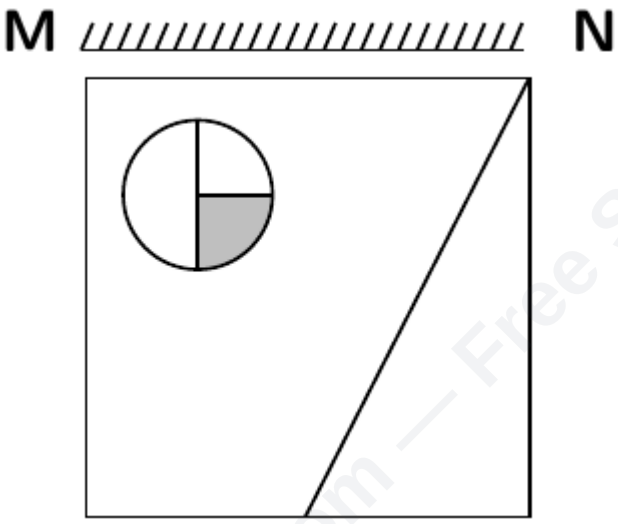
(a) 12
(b) 10
(c) 9
(d) 11

Q47. 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.

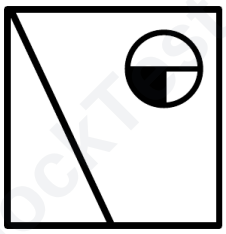
(a) (11, 13, 15)
(b) (16, 18, 20)
(c) (13, 15, 18)
(d) (22, 24, 26)

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

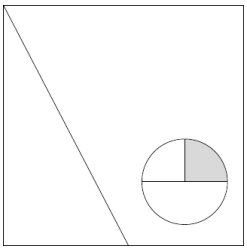
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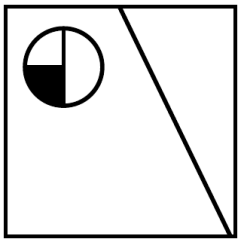
(a)



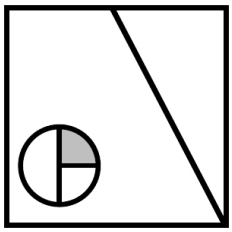
(b)



(c)

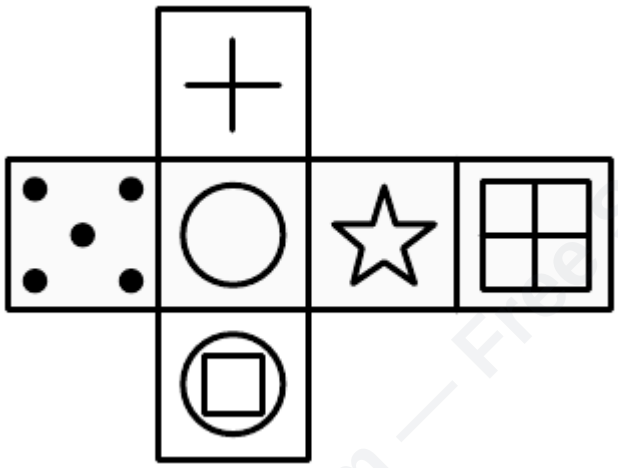


(d)

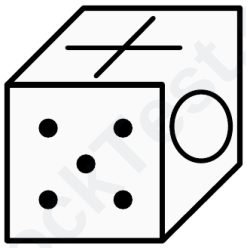


Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

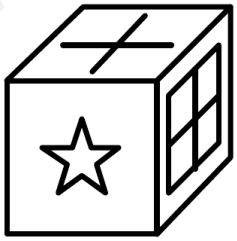
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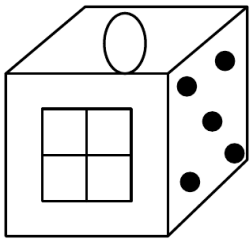
(a)



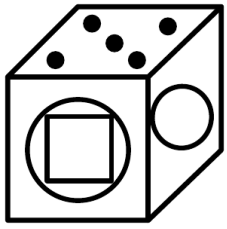
(b)



(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 ‘F’ can be represented by 12, 43 etc and ‘Z’ can be represented by 87, 98 etc. Similarly, you have to identify the set for the word ‘SOCK’.

Matrix-I					

	0	1	2	3	4
0	A	E	E	G	H
1	I	A	F	M	D
2	E	M	A	E	H
3	I	A	C	H	B
4	D	K	H	F	E

Matrix-II					
	5	6	7	8	9
5	Z	P	P	Q	S
6	V	U	S	R	N
7	U	U	N	V	X
8	N	O	Z	V	T
9	R	W	W	Z	N

(a) 14, 56, 10, 56
(b) 67, 86, 32, 41
(c) 42, 59, 14, 78
(d) 21, 68, 22, 57

QUANTITATIVE APTITUDE

Q51. Find the number that is as much greater than 39 as is less than 79.
(a) 42
(b) 49
(c) 55
(d) 59

Q52. If (1/3.197) = 0.3127, find the value of (1/0.0003197).
(a) 3127
(b) 3197
(c) 312.7
(d) 0.3127

Q53. The two lines 4x + 3y = 0 and 7x + 5y = 0 will _____ in their graphical representation.
(a) be parallel to each other
(b) intersect each other at one point only
(c) intersect each other at three points only
(d) coincide each other

Q54. If the two lines px + 6y + 3 = 0 and 2x + qy + 3 = 0 have infinite solutions then find the value of p and q respectively.
(a) 2, 6
(b) 6, 2
(c) 2, 2
(d) 6, 6

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Q55. Which of the following triangle has the maximum area when inscribed inside the circle of same radius?

(a) Scalene
(b) Isosceles
(c) Equilateral
(d) Right angled

Q56. Which of the following ratio correctly depicts the division of each median of the triangle by the centroid?

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

Q57. If A is 40% more than B, then B is how much percent less than A?

(a) 28.57
(b) 40
(c) 33.33
(d) 66.66

Q58. If (4/5)A = 3B = (2/3)C, then what is A : B : C?

(a) 12 : 3 : 16
(b) 12 : 45 : 10
(c) 15 : 4 : 18
(d) 9 : 12 : 16

Q59. A mixture of alcohol and water contains 7% alcohol. How much mixture (in litres) is required to get 357 litres of alcohol?

(a) 6300
(b) 4200
(c) 4900
(d) 5100

Q60. What is the average of 36, 43, 51, 68, and 77?

(a) 47
(b) 49
(c) 55
(d) 64

Q61. A sum of money becomes 77/50 of itself in 18/5 years when invested at simple interest. What is the rate (in percentage) of interest per annum?

(a) 20
(b) 18
(c) 12
(d) 15

Q62. The ratio of the cost price and selling price of a bulb is 15 : 18. What is the profit percentage?

(a) 16.66
(b) 14.28
(c) 20
(d) 22

Q63. A shopkeeper offers the following 3 schemes. Which scheme has the maximum discount percentage?

I. Two successive discount of 20% and 25%
II. Buy 5 get 3 free
III. Buy 5 get 6

(a) Only II

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

Q64. If 9^x = 11√243, then what is the value of x?

(a) 5/11
(b) 5/22
(c) 5/7
(d) 5/33

Q65. M can complete 3/4 part of a work in 12 days and N can complete 2/7 part of the same work in 8 days. In how many days will both complete 11/14 part of the total work?

(a) 8
(b) 9
(c) 7
(d) 6

Q66. A train starts moving from a place X at 7:00 a.m. and arrives at another place Y at 1:00 p.m. on the same day. If the speed of the train is 15 m/s, then what will be the distance (in km) covered by the train?

(a) 324
(b) 375
(c) 390
(d) 245

Directions

Direction: The HR department of an MNC prepared a repot. The pie chart from this report shows number of employees the MNC has in different countries. Study the diagram and answer the following questions.



Q67. The most number of employees are from which country?

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

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

(a) 400
(b) 600
(c) 500
(d) 300

Q69. The measure of the central angle of the sector representing country F is _____ degrees.

(a) 48
(b) 80
(c) 60
(d) 56

Q70. If the average monthly salary of the employees of this MNC is $6000 then what is the total of the salaries (in $ millions) paid to all the employees of this MNC?

(a) 36
(b) 1.8
(c) 3.6
(d) 18

Q71. If the lengths of the two parallel sides of a trapezium are 8 cm and 10 cm and its area is 54 cm^2. Find the distance between its parallel sides (in cm).

(a) 6
(b) 3
(c) 12
(d) 9

Q72. If the circumference of a circle is 22 cm, then what must be its area (in cm^2)?

(a) 77
(b) 38.5
(c) 31.5
(d) 63

Q73. The total surface area of a cube is 337.5 cm^2. Find its side (in cm).

(a) 8.5
(b) 6.5
(c) 5.5
(d) 7.5

Q74. ΔPQR is right angled at Q. If mangle R = 45°, then find the value of (tan P - 1/2).

(a) (2 - √3)/√3
(b) (2√3 - √6)/2√2
(c) 1/2
(d) (√6 - 6)/3√3

Q75. ΔDEF is right angled at E. If sec D = 25/7, then what is the value of cosec F?

(a) 7/25
(b) 24/7
(c) 25/7
(d) 7/24

GENERAL AWARENESS

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Q76. Which one among the following administers the International Development Association (IDA)?

(a) UNDP
(b) UNIDO
(c) IFAD
(d) IBRD

Q77. Who decides the Minimum Support Price (MSP) for agricultural crops in India?

(a) Ministry of Agriculture
(b) NABARD
(c) Commission on Agriculture Cost and Price (CACP)
(d) Ministry of Commerce

Q78. Pidurutalagala or Mount Pedro is the highest mountain peak of which of the following countries?

(a) South Africa
(b) Panama
(c) Sri Lanka
(d) Cambodia

Q79. Which of the following rivers flows from south to north?

(a) Godavari
(b) Cauvery
(c) Krishna
(d) Betwa

Q80. Sikhism was founded in which of the following centuries?

(a) 13-14^(th) century
(b) 11-12^(th) century
(c) 15-16^(th) century
(d) 12-13^(th) century

Q81. For the first time in Gujarat, who implemented Jizya tax?

(a) Ahmed Shah I
(b) Mahmud Begda
(c) Mujaffarshah I
(d) Mujaffarshah II

Q82. Who of the following Indian vocalist and musician established the Academy of Performing Arts and Research in Switzerland?

(a) Balamuralikrishna
(b) K.J. Yesudas
(c) Pandit Kumar Gandharva
(d) Pandit Ravi Shankar

Q83. India and which country, on 25 October, 2017, agreed to implement helicopter operations from ships to strengthen maritime security?

(a) USA
(b) Somalia
(c) Japan
(d) Germany

Q84. The Chief Minister of which state was, in October 2017, honoured with the Golden Peacock Award under the category 'Global Leadership in Public Service and Economic Transformation?

(a) Bihar
(b) West Bengal
(c) Telangana

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(d) Andhara Pradesh

Q85. Which of the following is the largest city of Myanmar?

(a) Yangon
(b) Mandalay
(c) Mawlamyine
(d) Naypyidaw

Q86. Valency of an element depends on which of the following?

I. Number of losing electron
II. Number of gaining electron
III. Number of sharing electron

(a) Only I and II
(b) Only I and III
(c) Only II and III
(d) All I, II and III

Q87. Which of the following statement(s) is/are CORRECT?

I. Oils containing unsaturated fatty acids should be used for cooking.
II Animal fats have saturated carbon chains.
III. Saturated fatty acids are generally harmful for health

(a) Only I and II
(b) Only I and III
(c) Only II and III
(d) All I, II and III

Q88. In India, who is considered above the law of country?

(a) President of India
(b) Prime Minister of India
(c) A wealthy person of India
(d) No option is correct.

Q89. Which among the following Article/Articles of Indian Constitution deals with Emergency provisions?

I. Article 352
II. Article 356
III. Article 360

(a) Only I
(b) Both II and III
(c) Both I and II
(d) All I, II and III

Q90. The transport of soluble products of photosynthesis is called _____.

(a) Transpiration
(b) Translocation
(c) Transportation
(d) Concentration

Q91. Which feature of the cell allows or permits the entry and exit of some materials in and out of the cell?

(a) Cytoplasm
(b) Protoplasm
(c) Cell wall
(d) Plasma membrane

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Q92. In November 2017, Indian Government launched 'UMANG' mobile app. What does 'G' stand for in 'UMANG'?

(a) Government
(b) Governance
(c) Group
(d) Growth

Q93. What is the name of first solar mission of Indian Space Research Organisation set to be launch in 2019?

(a) Halo L1
(b) Aditya - L1
(c) Corona - L1
(d) Ravi - L1

Q94. In October 2017, SEBI directed the stock exchanges to impose how much fine/penalty on those companies which do not comply with the minimum public shareholding norms?

(a) Rs. 5000 per day
(b) Rs. 12,000 per day
(c) Rs. 15,000 per day
(d) Rs. 20,000 per day

Q95. In January 2018, the Companies (Amendment) Act, 2017 was notified. Few provisions in the amendment Act have important bearing on the working of the _____.

(a) Insolvency and Bankruptcy Code (IBC), 2016
(b) NABARD (amendment) Bill, 2017
(c) AMASR (amendment) Bill, 2017
(d) No option is correct.

Q96. Find the potential energy gained by a body of mass 25 kg, if it is raised by 5 m. (use g = 10 m/s^2)

(a) 1250
(b) 50
(c) 625
(d) 25

Q97. If the acceleration due to gravity on the surface of earth is g, then the acceleration due to gravity on the surface of a planet whose mass is same as that of earth and radius is twice as that of earth is _____.

(a) g/4
(b) g/2
(c) 4g
(d) 2g

Q98. An _____ is a sudden shaking or trembling of the earth.

(a) thunderstorm
(b) cyclone
(c) earthquake
(d) hurricane

Q99. Which of the statements given below are correct?

A) In 2017 Pro Kabaddi League, Suraj Desai played for Dabang Delhi.

B) Ryu So-yeon won the Golf 2017 WGC-Dell Technologies Match Play.

C) Ma Long won the 2017 World Table Tennis Championships Men's Singles.

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

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Q100. In Microsoft Word, _____ contains tools for standard tasks like saving, printing, cutting, copying, pasting etc.

(a) Standard tool bar
(b) Menu bar
(c) Formatting tool bar
(d) Status bar

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 1

The correct answer is '1' i.e. error lies in the first part.

Key Points

In part 1 of the sentence, the usage of 'fall' is incorrect Instead, use 'fell'

• According to grammar, whenever the time reference 'last night' is given we have to use the past simple tense.

• Let's see an example-

• He picked up a metallic ring last night.

So the correct sentence is- He fell over the ledge after drinking heavily last night.

Q2. Answer: (c) 3

The correct answer is '3' i.e. error lies in the third part of the sentence.

Key Points

In part 3 of the sentence, the usage of 'forcibly' is incorrect Instead, use 'forced'

• According to grammar, 'forcibly' is an adverb of the manner in the given sentence we don't need an adverb here we need a past participle to make it in the passive voice because the doer of the verb 'forced' is somebody else.

So the correct sentence is- The Maldives has been buffeted by one political crisis after another since Nasheed, the first democratically elected president, was forced to quit in 2012.

Q3. Answer: (d) Towards

The correct answer is 'towards'

Key Points

• The correct preposition in the blank is 'towards' which means 'in direction of' or 'If you move, look, or point towards something or someone, you move, look, or point in their direction.'

• Let's see an example-

• Caroline leaned across the table towards him.

So the correct sentence is- The path runs towards forests and mountains.

Q4. Answer: (c) Evoked

The correct answer is 'Evoked'

Key Points

• Let's see the meaning of the given words-
• Repressed→ Subdue by force, restrain, prevent.
• Quelled→ Put an end to, typically by force.
• Evoked→ Bring or recall to the conscious mind.
• Halted→ Bring or come to an abrupt stop.
• So according to the meaning of the given words, the correct answer is 'Evoked'

Q5. Answer: (a) Elegant

The correct answer is 'Elegant'

Key Points

• Let's see the meaning of the given words-
• Debonair→ means 'confident, stylish, and charming'
• Elegant→ means 'graceful or stylish.'
• Awkward→ means 'hard to do or deal with.'
• Clumsy→ means 'awkward in movement or performance.'
• Difficult→ means 'not easy to please or satisfy awkward.'
• So according to the meaning of the given words, the correct answer is 'Elegant'

Q6. Answer: (c) Engage

The correct answer is 'Engage'

Key Points

• Let's see the meaning of the given words-
• Rivet→ means 'join or fasten with a rivet or rivets.'
• Heavy→ means 'of great weight, difficult to lift, or move'
• Joyous→ means 'full of happiness or joy'
• Engage→ means 'attract or involve'
• Revolve→ means 'move in a circle on a central axis.'
• So according to the meaning of the given words, the correct answer is 'Engage'

Q7. Answer: (b) Conceal

The correct answer is 'Conceal'

Key Points

• Let's see the meaning of the given words-
• Evince→ means 'reveal the presence of or indicate.'
• Conceal→ means 'not allow to be seen; hide; keep secret, prevent from, being known.'
• Declare→ means 'announce solemnly or officially make clearly known.'
• Prove→ means 'demonstrate by evidence or argument.'
• Manifest→ means 'clear or obvious to the eye or mind.'
• So according to the meaning of the given words, the correct answer is 'Conceal'

Q8. Answer: (a) Artful

The correct answer is 'Artful'

Key Points

• Let's see the meaning of the given words-
• Candid→ means 'truthful and straightforward'
• Artful→ means 'cunningly clever or skillful'
• Free→ means 'not under the control or in the power of another.'
• Objective→ means 'not influenced by personal feelings or opinions in considering and representing facts.'
• Plain→ means 'not decorated or elaborated.'
• So according to the meaning of the given words, the correct answer is 'Artful'

Q9. Answer: (b) QRP

The correct answer is 'QRP'

Key Points

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• Greater competition must be explained as to competition regarding or in what? Q satisfies this criterion and therefore, Q is first. Rule out 1) and 3). Note how P and R state contrasting conditions (expanding-contracting). Clearly, others will come after some. (e.g. A, B, and others).

So the correct sentence is- As a result of greater competition in the US computer industry, some computer companies are expanding while others are contracting.

Q10. Answer: (a) He was told to collect assignments by the teacher.

The correct answer is 'He was told to collect assignments by the teacher.'

Key Points

• In Active Voice, a sentence emphasizes the subject, performing an action.

• In Passive Voice, a sentence emphasizes the action or the object of the sentence.

• In the given sentence, the subject is 'the teacher' and the verb is 'told' i.e. in the past tense and the object is 'him' this object is an indirect object. 'to collect assignments' is an infinitive phrase and the subject for this phrase is 'him'

• As the structure for the passive sentence is- 'Be + V3'

So the correct passive is- He was told to collect assignments by the teacher.

Additional Information

Verbs of passive format have a different set of tenses (*V3 - Past participle or Third form of the Verb) as given below in the table:

TENSE	ACTIVE	PASSIVE	PASSIVE CONVERSION
Present Simple	He plays football	am/is/are + V3	Football is played by him
Present Continuous	He is playing football	am/is/are + being +V3	Football is being played by him
Present Perfect	He has played football	Has/have + been+ V3	Football has been played by him
Present Perfect Continuous	He has been playing football	Not used and unusual.	Not used and unusual
Past Simple	He played football	Was/were + V3	Football was played by him
Past Continuous	He was playing football	Was/were + being + V3	Football was being played by him
Past Perfect	He had played football	Had + been + V3	Football had been played by him
Past Perfect Continuous	He had been playing football	Not used and unusual	Not used and unusual
Future Simple	He will play football	Will + be + V3	Football will be played by him
Future Continuous	He will be playing football	Not used and unusual	Not used and unusual
Future Perfect	He will have played football	Will have been + V3	Football will have been played by him
Future Perfect Continuous	He will have been playing football	Not used and unusual	Not used and unusual

Q11. Answer: (d) His mother said that she had not seen him for years.

The correct answer is 'His mother said that she had not seen him for years. '

Key Points

The given sentence is in 'Direct speech' we need to follow the following steps while changing Direct speech.

• #The first person of reported speech is changed according to the pronoun of the reporting verb.

• Let's see an example-

• She said, "I will go to London." (Direct speech)

• She said that she would go to London. (Indirect speech)

• #The first-person pronoun of reported speech is not changed if the pronoun of the reporting verb is also the first person.

• Let's see an example-

• I said, "I had applied for a job." (Direct speech.)

• I said I had applied for a job. (Indirect speech.)

• #The second person pronoun of the reported speech is changed according to the 'object' of the reporting verb.

• Let's see an example-

• She said to me, "You are a brilliant student." (Direct Speech)
• She told me that I was a brilliant student. (Indirect Speech)
• She said to them, "You are brilliant students" (Direct speech)
• She told them that they are brilliant students. (Indirect speech)
• #The third person pronoun of the reported speech will not be changed in indirect speech.
• Let's see an example-
• He said, "She will buy a pen." (Direct speech.)
• He said that she would buy a pen. (Indirect speech.)
• If the reporting verb is in the past tense and the reported speech is not an idiom/phrase/universal truth/routine/historical fact etc., the following changes will take place in the tense, time, and place of the reported speech.
• So the correct Indirect speech is- His mother said that she had not seen him for years.

Additional Information

DIRECT SPEECH	INDIRECT SPEECH
Simple Present	Simple Past
Simple Past	Past Perfect
Present Continuous	Past Continuous
Past Continuous	Past Perfect Continuous
Present Perfect	Past Perfect
Past Perfect	No change
Present Perfect Continuous	Past Perfect Continuous
Past Perfect Continuous	No change
Will/Shall/Can/May	Would/Should/Could/Might
Now	Then
Today	That day
Tomorrow	The next day/The following day
Yesterday	The previous day
Tonight	That night
Hence	Thence
Ago	Before
Last	The previous
Here	There
This	That
These	Those

Q12. Answer: (c) Questionnaire

The correct spelling is 'Questionnaire.'

Key Points

• The correct spelling is 'Questionnaire'
• The meaning of the given word is- A questionnaire is a written list of questions which are answered by a lot of people in order to provide information for a report or a survey.
• Let's see an example-
• Headteachers will be asked to fill in a questionnaire.
• So the correct answer is 'Option 3'

Q13. Answer: (c) Up

The correct answer is 'up'

Key Points

• The meaning of the given phrase 'take up' is 'become interested or engaged in a pursuit.'

• Let's see an example-

• She took up tennis at the age of 11.

Additional Information

• Take in: include or encompass something.

• Take down: write down spoken words; dismantle and remove a structure.

• Take into: To move or bring someone or something into the inside of something or some place.

Q14. Answer: (d) From

The correct answer is 'from'

Key Points

• We have to revoke the suspension of ethics and morality _____ our lives by initiating a dialogue on it.

• In the given sentence, 'have to' is a modal verb, and 'revoke' is the main verb also, it is a transitive verb 'the suspension' is an object of the sentence. Hence, when we are taking out something from someone we use the preposition 'from' because it means 'indicating source or provenance'

• Hence, the correct answer is 'Option 4.'

Q15. Answer: (c) Never

The correct answer is 'Never'

Key Points

• According to grammar, 'never' is an adverb that means 'Not ever or not at all'

• 'No' is an adjective that means 'not any'

• 'None' is an adverb that means 'no amount or not at all.'

• So according to the meaning and context the correct answer is 'Never'

Q16. Answer: (a) Responsibility

The correct answer is 'Responsibility'

Key Points

• According to grammar, 'by' is a preposition and 'anchoring' is a gerund that is the prepositional object of the preposition. Also, 'moral' is an adjective and we know that whenever the adjective is written we need a noun for which adjective is going to qualify.

• Let's see the options-

• Responsibility is a noun.

• Responsible is an adjective.

• Responsibly is an adverb.

• Responsory is a noun.

• So according to the meaning of the given words, the correct answer is 'Responsibility'

Q17. Answer: (d) Another

The correct answer is 'another'

Key Points

• 'One another' is a pronoun that refers to

• Let's see an example-

• They are highly suspicious of one another.

• So the correct answer is 'Option 4'

Q18. Answer: (b) To be an irritant.

The solution is in Hindi. Read it online.

Q19. Answer: (d) Something which surprises, shocks, or offends people.

The correct answer is 'Something which surprises, shocks, or offends people. '

Key Points

• The meaning of the given idiom 'Eyebrow raising' is- If something causes you to raise an eyebrow or to raise your eyebrows, it

causes you to feel surprised or disapproving.

• Let's see an example-

• An intriguing item on the news pages caused me to raise an eyebrow over my morning coffee

Q20. Answer: (d) Irreverent

The correct answer is 'Irreverent'

Key Points

• Let's see the meaning of the given words-

• Solemn→ means very serious, dignified, and formal in manner or appearance.

• Pious→ means 'devoutly religious'

• Devout→ means 'having or showing deep religious feeling or commitment'

• Irreverent→ means 'disrespectful'

• So according to the meaning of the given words, the correct answer is 'Irreverent'

Q21. Answer: (d) Devious

The correct answer is 'Devious'

Key Points

• Let's see the meaning of the given words-

• Scupulous→ means 'diligent, thorough, and attentive to details'

• Veracious→ means 'speaking or representing the truth; truthful'

• Authentic→ means 'undisputed origin or veracity; genuine.'

• Devious→ means 'skillfully using the underhand tactics'

• So according to the meaning of the given words, the correct answer is 'devious'

Q22. Answer: (b) Had made

The correct answer is 'had made'

Key Points

• According to the grammar, The Past Perfect tense expresses action in the past before another action in the past. This is the past in the past.

• In the given sentence, 'this move' expresses that something has done in the past which is completed in the present. Hence, we can say that this sentence should be written in the past perfect tense.

So the correct sentence is- A monthly contribution by the boy's elder brother had made this move possible.

Q23. Answer: (b) Had corrected

The correct answer is 'Had corrected'

Key Points

• According to grammar, the past perfect tense is used whenever 'The past perfect refers to a time earlier than before now. It is used to make it clear that one event happened before another in the past.'

• In the given sentence, the main clause 'he claimed' is in the past tense hence the subordinate clause is going to be the first instance which has happened hence it should be written in the past perfect tense because it is the past of past action.

• Let's see an example-

• He was very tired because he hadn't slept well.

So the correct sentence is- He claimed that he had corrected the ringing on both the clocks.

Q24. Answer: (c) ACB

The correct answer is 'ACB'

Key Points

• The last word of the fixed sentence is- 'my' that is a determiner and for this determiner, we need a noun that is written in the 'A' part only i.e. 'teacher'

• The last word of the 'A' part is 'very' i.e. it is an adverb hence for this adverb we need an adjective that is written in the 'C' and 'B' part but we have to choose the 'C' part because it makes the sentence meaningfully and contextually correct.

• So the correct sentence is- One of them said my teacher was being very strict; not all French were as strict as she was.

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Q25. Answer: (b) Illiterate

The correct answer is '2'

Key Points

• The correct spelling is 'Illiterate'

• The meaning of the given word is- 'Unable to read or write'

• Let's see an example-

• A large percentage of the population is illiterate.

Q26. Answer: (a) Monday : Tuesday

As Thursday and Friday are consecutive days, means Friday comes after Thursday,

Similarly,

Only Monday and Tuesday are consecutive days, means Tuesday comes after Monday,

Hence, Monday: Tuesday is the correct answer.

Q27. Answer: (d) 366

The pattern followed here is,

Second number = First number - 2

594 - 2 = 592

Similarly,

368 - 2 = 366

Hence, 366 is the correct answer.

Q28. Answer: (b) CPZ

The pattern followed here is,

K + 1 = L

P + 1 = Q

V + 1 = W

Similarly,

B + 1 = C

O + 1 = P

Y + 1 = Z

Hence, ‘CPZ’ is the correct answer.

Q29. Answer: (c) Grapes

Cauliflower, Potato and Brinjal are names of Vegetable,

Whereas Grapes is the Fruit,

Hence, Grapes is the odd one out.

Q30. Answer: (d) 35 – 37

The pattern followed here is,

Second number = First number + 4

39 + 4 = 43

23 + 4 = 27

31 + 4 = 35

35 + 4 = 39 ≠ 37

Hence, ’35 – 37‘ is the odd one out.

Q31. Answer: (b) HKNR

The pattern followed here is,

G + 3 = J; J + 3 = M; M + 3 = P;

H + 3 = K; K + 3 = N; N + 4 = R;

P + 3 = S; S + 3 = V; V + 3 = Y;

N + 3 = Q; Q + 3 = T; T + 3 = W;

Hence, ‘HKNR’ is the odd one out.

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Q32. Answer: (d) 12435

As per the dictionary order,

1) Telephone

2) Teleworker

4) Temperature

3) Tendency

5) Themselves

Hence, 12435 is the correct order.

Q33. Answer: (b) 16

The pattern followed here is,

4 + 1 = 5;

5 + 3 = 8;

8 + 1 = 9;

9 + 3 = 12;

12 + 1 = 13;

13 + 3 = 16

Hence, 16 is the correct answer.

Q34. Answer: (d) BDI

The pattern followed here is,

First letter of each word:

E - 1 = D; D - 1 = C; C - 1 = B; B - 1 = A

Second letter of each word:

G - 1 = F; F - 1 = E; E - 1 = D; D - 1 = C

Third letter of each word:

L - 1 = K; K - 1 = J; J - 1 = I; I - 1 = H

Hence, BDI is the correct answer.

Q35. Answer: (b) 4

Let weight of Shivam be ‘x’.

Weight of Tipu is twice of the weight of Shivam: 2x,

Weight of Roma is twice of the weight of Tipu: 4x,

Weight of Karan is one-fourth of the weight of Roma: ‘x’,

Weight of Alok is twice the weight of Karan: 2x

Hence, weight of Roma is greater than all other persons.

Hence, 4 is the correct answer.

Q36. Answer: (d) Most

1) Come: COMPATIBLE, hence the word can be formed.

2) Pat: COMPATIBLE, hence the word can be formed.

3) Time: COMPATIBLE, hence the word can be formed.

4) Most: ‘S’ is not present in COMPATIBLE; hence the word cannot be formed.

Hence, ‘Most’ word cannot be formed using the letters of the given word.

Q37. Answer: (b) 47

The pattern followed here is,

W + A + R + D = 23 + 1 + 18 + 4 = 46; 46 - 2 = 44

L + O + A + D = 12 + 15 + 1 + 4 = 32; 32 - 2 = 30

B + R + I + T = 2 + 18 + 9 + 20 = 49; 49 - 2 = 47

Hence, ‘47’ is the correct answer.

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Q38. Answer: (b) 2

As per the given information,

SYMBOLS	•	•	×	÷
CODES	×	÷	•	•

Given: 12 - 2 + 6 × 20 ÷ 18

Changing symbols as per the given information

We get,

12 × 2 ÷ 6 - 20 + 18

Using BODMAS rule,

12 × 1/3 - 20 + 18

= 4 - 20 + 18

= 22 - 20

= 2

Hence, 2 is the correct answer.

Q39. Answer: (a) • and ×

Changing symbols as per the given options,

1) 18 ÷ 2 – 25 + 9 × 6 = 38 = 38

2) 18 + 2 – 25 × 9 ÷ 6 = -17.5 ≠ 38

3) 18 ÷ 2 + 25 × 9 - 6 = 228 ≠ 38

4) 18 × 2 - 25 ÷ 9 + 6 = 39.22 ≠ 38

Hence, '+ and ×' is the correct answer.

Q40. Answer: (a) -7

The pattern followed here is,

18 - 12 = 6; 6 ÷ 2 = 3

2 - 14 = -12; -12 ÷ 2 = - 6

4 - 4 = 0; 0 ÷ 2 = 0

Similarly,

2 - 16 = -14 ÷ 2 = -7

Hence, -7 is the correct answer.

Q41. Answer: (d) PPPPPPQQ

The pattern followed here is,

P	Q	P	P	P	P	P	Q
P	P	Q	P	P	P	P	Q
P	P	P	Q	P	P	P	Q
P	P	P	P	Q	P	P	Q
P	P	P	P	P	Q	P	Q
P	P	P	P	P	P	Q	Q

Hence, 'PPPPPPQQ' is the correct answer.

Q42. Answer: (a) 30 m North

As per the given information,

Hence, woman is 30 m north to her starting position.

Q43. Answer: (d) Neither conclusion I nor conclusion II follows

The least possible diagram of this question is as follows,

Conclusion:

I: All slippers are footwear → False, it is possible, but not definite.

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II: All footwear are slippers → False, it is possible, but not definite.
Hence, neither conclusion I nor conclusion II follows.

Q44. Answer: (b) DC

Hence, letters DC represents technicians who are bakers.

Q45. Answer: (d) XJS

The pattern followed here is,
First letter of each word: H + 4 = L; L + 4 = P; P + 4 = T; T + 4 = X
Second letter of each word: T + 4 = X; X + 4 = B; B + 4 = F; F + 4 = J
Third letter of each word: C + 4 = G; G + 4 = K; K + 4 = O; O + 4 = S
Hence, 'XJS' is the correct answer.

Q46. Answer: (b) 10

The pattern followed here is,
2 + 2 = 4;
4 + 2 = 6;
6 + 2 = 8;
8 + 2 = 10;
10 + 2 = 12
Hence, 10 is the correct answer.

Q47. Answer: (c) (13, 15, 18)

The pattern followed here is,
1) (11, 13, 15): 11 + 2 = 13; 13 + 2 = 15
2) (16, 18, 20): 16 + 2 = 18; 18 + 2 = 20
3) (13, 15, 18): 13 + 2 = 15; 15 + 3 = 18
4) (22, 24, 26): 22 + 2 = 24; 24 + 2 = 26
Hence, (13, 15, 18) is the correct answer.

Q48. Answer: (d) [figure]

If a mirror is placed along MN line, then, we will get the following mirror image.
Hence, image (4) is the correct answer.

Q49. Answer: (c) [figure]

As per the given information,
Hence, image 3 is odd one out.

Q50. Answer: (b) 67, 86, 32, 41

1) 14, 56, 10, 56 → D, P, I, P
2) 67, 86, 32, 41 → S, O, C, K
3) 42, 59, 14, 78 → H, S, D, V
4) 21, 68, 22, 57 → M, R, A, P
Hence, '67, 86, 32, 41' is the correct answer.

Q51. Answer: (d) 59

Calculation:
Let the number be x
According to the question,
=> x - 39 = 79 - x
=> 2x = 118
=> x = 118/2
=> x = 59
Therefore the number is 59.
Shortcut TrickThe number will be the average of the given numbers.

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The number = (39 + 79)/2 = 59

Therefore The required number is 59.

Q52. Answer: (a) 3127

Given, (1/3.197) = 0.3127

Therefore (1/0.0003197) = (1/3.197) × 10000 = 0.3127 × 10000 = 3127

Q53. Answer: (b) intersect each other at one point only

4x + 3y = 0

When x = 0 then y = 0

When x = -3 then y = 4

And, 7x + 5y = 0

When x = 0 then y = 0

When x = 5 then y = -7

The two lines 4x + 3y = 0 and 7x + 5y = 0 will intersect each other at one point only in their graphical representation.

Alternate MethodGiven equation are 4x + 3y = 0 and 7x + 5y = 0.

a1/a2 ≠ b1/b2 => 4/7 ≠ 3/5

In this situation, the equation will have a unique solution. If we remember this, there is no need to sketch any graph.

Q54. Answer: (a) 2, 6

Concept:

For infinite solutions,

a1/a2 = b1/b2 = c1/c2

Calculation:

Line px + 6y + 3 = 0 when compared with a1x + b1y + c1 = 0

So, a1 = p, b1 = 6 and c1 = 3

Line 2x + qy + 3 = 0 when compared with a2x + b2y + c2 = 0

So, a2 = 2, b2 = q and c2 = 3

=> p/2 = 6/q = 3/3

=> p/2 = 3/3

=> p = 2

And, 6/q = 3/3

=> q = 6

So, value of p and q = 2, 6

Q55. Answer: (c) Equilateral

Equilateral triangle has maximum area when inscribed inside the circle of the same radius

Let the radius of circle AO = BO = CO = 2r and side of triangle is a

In equilateral triangle medians intersect in ratio 2 : 1,

So, OG = AO/2 = 2r/2 = r

=> $BG^2 = BO^2 - OG^2$

=> $BG^2 = (2r)^2 - (r)^2$

=> $BG^2 = 4r^2 - r^2$

=> $BG^2 = 3r^2$

=> BG = √3r

=> BC = 2 × BG = 2√3r = AB = CA

Therefore Area of equilateral triangle ABC = (√3)/4 × $(side)^2$ = (√3)/4 × $(2\sqrt{3}r)^2$ = (√3)/4 × $12r^2$ = $3\sqrt{3}r^2$

Q56. Answer: (c) 2 : 1

Concept used:

Each median divides the other median in the ratio of 2 : 1.

Calculation:

According to the theorem,

Each median divides the other median in the ratio of 2 : 1.

Therefore Option 3 is the correct answer.

Q57. Answer: (a) 28.57

Calculation:

Let B = 100

So, A = (100 + 40)% of B = 140% of 100 = 140

Therefore Required % = (140 - 100)/140 × 100 = 2/7 × 100 = 28.57%

Alternate MethodA = 140% of B

=> A/B = 7/5

The difference = 7 - 5 = 2 units.

The percentage difference = 2/7 × 100 = 28.57%

Q58. Answer: (c) 15 : 4 : 18

Given:

(4/5)A = 3B = (2/3)C

Calculation:

(4/5)A = 3B = (2/3)C = K(Let)

=> A = 5K/4, B = K/3, C = 3K/2

=> Ratio = 5K/4 : K/3 : 3K/2

=> 12 × 5K/4 : 12 × K/3 : 12 × 3K/2

=> 15 : 4 : 18

Q59. Answer: (d) 5100

Given:

A mixture contains 7% alcohol

Calculation:

Alcohol = 7% = 357 litres

=> 1% = 357/7 = 51 litres

Total mixture = 100% = 5100 litres.

Therefore The correct answer is 5100

Q60. Answer: (c) 55

Therefore Average = (36 + 43 + 51 + 68 + 77)/5 = 275/5 = 55

Alternate MethodDeflection method:

Let the average be 51.

The total deflection = (51 - 36) + (51 - 43) + (51 - 51) + (51 - 68) + (51 - 77)

=> 15 + 8 + 0 - 17 - 26

=> -20

Correct average = 51 + 20/5 = 55

Q61. Answer: (d) 15

Concept used:

• Simple interest = (P × T × R)/100, where P = principal, T = time, R = rate

• Amount = Simple interest + Principal

Calculation:

According to the question,

S.I. = Amount - Principal = 77P/50 - P = 27P/50

=> 27P/50 = (P × R × 18)/(100 × 5)

Therefore R = 30/2 = 15%

Q62. Answer: (c) 20

Given:

The ratio of Cost price and Selling price is 15 : 18

Concept used:

• Profit% = (S.P - C.P)/C.P × 100

Calculation:

According to the question,

C.P = 15 unit and S.P = 18 unit

Profit % = (18 - 15)/15 × 100 = 20%

Therefore The correct answer is 20%

Q63. Answer: (b) Only I

Scheme I. Two successive discounts of 20% and 25%

So, effective discount for scheme I is = 20 + 25 - (20 × 25)/100 = 45 - 5 = 40%

Scheme II. Buy 5 get 3 free

So, effective discount for scheme II is = (Article get free)/(Total articles) × 100 = 3/(5 + 3) × 100 = 37.5%

Scheme III. Buy 5 get 6

So, effective discount for scheme III is = (Article get free)/(Total articles) × 100 = 1/(6) × 100 = 16.67%

So, answer is Scheme I.

Q64. Answer: (b) 5/22

Calculation:

9^x = 11√243

=> (3)^(22x) = (3)^5

=> x = 5/22

Therefore The value of x = 5/22

Q65. Answer: (a) 8

Concept used:

Total work = Efficiency × Time

Calculation:

Time taken by M to complete 3/4 part of a work = 12 days

Time taken by M to complete whole work = 12 × 4/3 = 16 days

Time taken by N to complete 2/7 part of a work = 8 days

Time taken by N to complete whole work = 8 × 7/2 = 28 days

Total work = LCM of 16, 28 = 112 units

Efficiency of M = 112/16 = 7 units/day

Efficiency of N = 112/28 = 4 units/day

Efficiency of M and N together = 7 + 4 = 11 units/day

Therefore Time taken by M and N together to complete 11/14 part of work = 11/14 × 112 × 1/11 = 8 days

Q66. Answer: (a) 324

Given:

The train travels from a place X at 7:00 a.m to place Y at 1:00 p.m,

Speed of the train = 15 m/s

Concept used:

Speed = Distance/Time

Calculation:

Time taken by train = 6 hours

Speed of train = 15 m/s = 15 × 18/5 = 54 km/hr

Speed of train = Distance/Time

=> 54 = Distance/6

Therefore Distance = 54 × 6 = 324 km

Q67. Answer: (d) A

Therefore As shown in the, the value of A is 180 which is highest. So answer = A.

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Q68. Answer: (b) 600

Total No. of employees = Employees in (A + B + C + D + E + F + G)

Total expenditure = 180 + 20 + 20 + 160 + 20 + 80 + 120

Therefore Total expenditure = 600

Q69. Answer: (a) 48

Therefore The central angle of the sector representing F is = 80/600 × 360 = 48°

Q70. Answer: (c) 3.6

Calculation:

Average salary of employees = 6000 $

Total no. of employees = 600

Therefore Total of the salary paid (million $) = 600 × 6000/1000000 = 36/10 = 3.6 million $

Q71. Answer: (a) 6

Given:

Area = 54 cm^2, the two parallel sides of a trapezium are 8 cm and 10 cm

Concept used:

Area = 1/2 × (sum of parallel sides) × (Distance between parallel sides)

Calculation:

According to the question,

=> 54 = 1/2 × (8 + 10) × (Distance between parallel sides)

Therefore Distance between parallel sides = 54/9 = 6 cm

Q72. Answer: (b) 38.5

Given:

The circumference of a circle is 22 cm

Concept used:

• Circumference of circle = $2\pi r$

• Area of circle = πr^2

Where r = radius and $\pi = 22/7$

Calculation:

Circumference of circle = $2\pi r = 2 \times 22/7 \times r = 22$

=> r = 3.5 cm

Therefore Area of circle = $\pi r^2 = 22/7 \times 3.5 \times 3.5 = 38.5\ cm^2$

Q73. Answer: (d) 7.5

Given:

Total surface area of cube = 337.5 cm^2

Formula used:

The total surface area of the cube = 6a2

Calculation:

=> $6a^2 = 337.5$

=> $a^2 = 56.25$

=> a = 7.5 cm

Therefore Option 4 is the correct answer.

Q74. Answer: (c) 1/2

angle P = 180° - (angle Q + angle R) = 180° - (90° + 45°) = 45°

Therefore tan P - 1/2 = tan 45° - 1/2 = 1 - 1/2 = 1/2

Q75. Answer: (c) 25/7

Concept used:

• sec θ = hypotenuse/base

• cosec θ = hypotenuse/perpendicular

Calculation:

Sec D = 25/7 = DF/DE

Therefore cosec F = DF/DE = 25/7

Q76. Answer: (d) IBRD

The International Bank of Reconstruction and Development (IBRD) and the International Development Association are a part of the World Bank group that began operation in 1944 and was formed to reduce poverty by promoting international trade and capital investment.

Q77. Answer: (c) Commission on Agriculture Cost and Price (CACP)

• MSP is the minium price at which the government purchases the food grains from the farmers.

• CACP was earlier named as Agricultural Prices Commission and came into existence in January 1965.

• It's current chairman is Prof. Vijaya Paul Sharma.

Q78. Answer: (c) Sri Lanka

Following are the highest peaks of the above mentioned countries

South Africa	**Mafadi (3450 m)**
Panama	Volcan Baru (3475 m)
Sri Lanka	Pidurutalagala (2524 m)
Cambodia	Pnohm Aural Mountain (1810 m)

Q79. Answer: (d) Betwa

The Betwa or Betravati is a tributary of the Yamuna. It rises in the Vindhya Range just north of Hoshangabad in Madhya Pradesh and flows north-east through Madhya Pradesh and Orchha to Uttar Pradesh. Other rivers that flow from South to North are Narmada, Chambal, Son and Tugabhadra.

Q80. Answer: (c) 15-16^(th) century

Sikhism is based on the spiritual teachings of Guru Nanak, the first Guru and the nine Sikh gurus that succeeded him. The Tenth Guru, Guru Gobind Singh, named the Sikh scripture Guru Granth Sahib as his successor, terminating the line of human Gurus and making the scripture the eternal, religious spiritual guide for Sikhs. It was founded in 15-16^(th) century.

Q81. Answer: (a) Ahmed Shah I

Jizya is a ktax levied by the Muslim rulers on certain permanent Non-Muslim residents of the Muslim territory under Islamic law. The Umayyad general Muhammad-bin-Qasim, introduced the jizya in India in 712 A.D. when he conquered Sind. It was abolished by Akbar.

Q82. Answer: (a) Balamuralikrishna

Mangalampalli Balamuralikrishna was an Indian Carnatic vocalist, musician, multi-instrumentalist, playback singer, composer, and actor. He was awarded the Madras Music Academy's Sangeetha Kalanidhi in 1978. He has won two National Film Awards (1976, 1987), the Sangeet Natak Akademi Award in 1975, the Padma Vibhushan in 1991.

Q83. Answer: (a) USA

India and the United States, in March 2017 agreed to implement the programme for Helicopter Operations from Ships. The decision was taken by Defense Minister Nirmala Sitharaman and her US Counterpart Jim Mattis during their meeting in Philippines in 2017.

Q84. Answer: (d) Andhara Pradesh

Andhra Pradesh Chief Minister N Chandrababu Naidu received the 'Golden Peacock Award' at a convention in London in October 2017. The Golden Peacock Award, instituted by the Institute Of Directors (IOD), India in 1991, are claimed to be regarded as a benchmark of corporate excellence worldwide.

Q85. Answer: (a) Yangon

Yangon served as the capital of Myanmar until 2006, when the military government relocated the capital to the purpose-built city of Naypyidaw in central Myanmar. The city is also home to the gilded Shwedagon Pagoda that is Myanmar's most sacred Buddhist pagoda.

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Q86. Answer: (d) All I, II and III

Explanation:

• Valance Electrons: A valence electron is simply the total number of electrons present in the outermost shell of an atom.

• Valency: Valency is the number of electrons an atom loses, gains or shares with other atoms in order to get a stable configuration.

For example-

Atomic Configuration of Carbon (C) is (6) = 2,4

• The valency of Carbon will be 4 as it needs 4 more electrons to get a stable configuration.

• The number of valence electrons in carbon is also four as its outermost shell contains 4 electrons.

Atomic Configuration of Nitrogen N (7) = 2,5

The valency of nitrogen is 3 as it needs 3 more electrons to complete its octet but the number of valence electrons in nitrogen is 5.

So,

It can be losing, gaining or sharing of electrons.

Q87. Answer: (d) All I, II and III

Saturated fats are simply fat molecules that have no double bonds between carbon molecules because they are saturated with hydrogen molecules. Saturated fats are typically solid at room temperature. Some food items that contain saturated fats are fatty beef, pork, lamb etc.

Q88. Answer: (d) No option is correct.

Article 14 of the Indian Constitution guarantees an equality before law and equal protection by law as a fundamental right. This right cannot be breached and the Supreme Court holds the power to issue one of the five writes provided under Article 32 of the Constitution in case of any breach.

Q89. Answer: (d) All I, II and III

Article 352	**National Emergency, declared when security of India or any part is threatened whether by war or external aggression or an armed rebellion**
Article 356	State Emergency, declared when the Governor feels that State Government is violating the Constitution
Article 360	Financial Emergency, declared when a situation has arisen whereby the financial stability or the credit of India or any part thereof is threatened

Q90. Answer: (b) Translocation

• Translocation is the movement of materials from leaves to other tissues throughout the plant.

• Plants produce carbohydrates in their leaves by photosynthesis, but non-photosynthetic parts of the plant also require carbohydrates and other organic and nonorganic materials.

Q91. Answer: (d) Plasma membrane

• The plasma membrane allows or permits the entry and exit of some materials in and out of the cell.

• Some substances like CO2 or O2gases can move across the cell membrane by a process called diffusion.

Q92. Answer: (b) Governance

UMANG or Unified Mobile Application for New-age Governance, is a Government of India all-in-one single unified secure multi-channel multi-platform multi-lingual multi-service freeware mobile app for accessing over 1,200 central and state government services in multiple Indian languages services such as AADHAR, Digi Locker etc.

Q93. Answer: (b) Aditya - L1

• Aditya (which means Sun) or Aditya-L1 is a spacecraft whose mission is to study the Sun.

• It was conceptualised by the Advisory Committee for Space Research in January 2008.

• It has been designed and will be built in collaboration between Indian Space Research Organisation and various Indian research organizations and will be launched by ISRO around 2019 or 2020.

• This will be the first Indian space mission to study the Sun, and also the first Indian mission to be placed at Lagrangian point L1

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Q94. Answer: (a) Rs. 5000 per day

SEBI, in October 2017 announced that non-compliant companies with regard to Minimum Public Shareholding norms will have to pay a fine of Rs. 5,000 a day. In addition, the entire promoter holding, except for compliance to MPS, will be frozen by depositories, and the promoter group and directors of the particular company will not be allowed to hold any position in other companies.

Q95. Answer: (a) Insolvency and Bankruptcy Code (IBC), 2016

• The Amendment Act now allows companies to issue shares at a discount to its creditors when its debt is converted into shares in pursuance of any statutory resolution plan such as resolution plan under the Code or debt restructuring scheme.

• The Amendment Act now requires that where a company has defaulted in payment of dues to any bank or public financial institution or non-convertible debenture holders or any other secured creditor, the prior approval of the bank or public financial institution concerned or the non-convertible debenture holders or other secured creditor, as the case may be.

Q96. Answer: (a) 1250

The gravitational potential energy of an object is the 'stored energy' that the object has by being at that height. This is equivalent to its mass times the force of gravity, ‘g’ times the height of the object. This means following is the formula:

Potential energy = mass × gravity × height.

Potential Energy = 25 × 10 × 5 = 1250 J

Q97. Answer: (a) g/4

Concept-

Acceleration due to Gravity:

• The force of attraction exerted by the earth on a body is called gravitational pull or gravity. We know that when a force acts on a body, it produces acceleration. Therefore, a body under the effect of gravitational pull must accelerate.

Acceleration due to gravity at the surface of the earth is –

$g = GM/(R^2)$

Explanation –

As we know that acceleration due to gravity at the surface of the earth is

$g = GM/(R^2)$

Given - M1 = M and R1 = 2R

Therefore $g' = GM/((2R)^2) = GM/(4R^2) = g/4$

Q98. Answer: (c) earthquake

An earthquake is the shaking of the surface of the Earth, resulting from the sudden release of energy in the Earth's lithosphere that creates seismic waves. Earthquakes can range in size and are measured in Richter Scale.

Q99. Answer: (c) Both A and C

• The 2017 WGC-Dell Technologies Match Play was the 19th WGC Match Play, played March 22–26 at Austin Country Club in Austin, Texas.

• It was the second of four World Golf Championships in 2017.

• Dustin Johnson won the final 1 up over Jon Rahm.

Q100. Answer: (a) Standard tool bar

The standard toolbar provides a quick shortcut to many frequently used functions. You can customize the buttons that appear on the standard toolbar using the customize toolbar menu item. Standard toolbar functions are file commands, window commands etc.

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