SSC CHSL Previous Paper 44 (Held On: 23 March 2018 Shift 1) (Previous Year Paper)

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

Take this paper as a timed mock test

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

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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) Floundar
(b) Flounder
(c) Flaunder
(d) Flaundar

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.

I say a small

A- prayer whenever I ring

B- next assignment

C- the doorbell to my

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

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'.

We kept aside our clothes, (clean) our hiking boots and made sure we had our thick woollen socks.

(a) Cleaned
(b) Cleans
(c) To clean
(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'.

The diesel engines replaced the steam engines and the old first class coaches (is replaced) by coupes in a corridor.

(a) Was replaced
(b) Were replaced
(c) Were replace
(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 characteristic of one thing that is suggestive of another

(a) Antithetic
(b) Disparate
(c) Conjecture

(d) Reminiscence

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

Rude in a mean-spirited and surly way

(a) Affable
(b) Churlish
(c) Cordial
(d) Genteel -

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

A sight for sore eyes

(a) An ugly sight unpleasant to the eyes.
(b) When one becomes tired of watching too much TV or reading.
(c) A person or thing that one is extremely pleased or relieved to see.
(d) A beautiful sight that you can visualise even with closed eyes.

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

Be out of order

(a) Some goods which are out of stock.
(b) Do something against the court's ruling.
(c) A device not working properly or at all.
(d) Things kept in an organized manner.

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.

We must remember that we cannot create a draconian state _____ order to end corruption.The moral transformation of civil society must be _____ and based on persuasive leadership. A_____ definition of a sustainable lifestyle must be voluntarily accepted. Only _____ will the competitive urge to make more and more money end. Money should become meaningful, moral and deeply _____. If true wealth is found in a rich heart, no one will want to touch money even with a barge pole.

Q9. draconian state _____ order to end corruption.

(a) Into
(b) So
(c) In
(d) For

Q10. society must be _____ and based on

(a) Nature
(b) Natural
(c) Naturally
(d) Naturism

Q11. A _____ definition of a sustainable lifestyle

(a) Clearly
(b) Clarity
(c) Clarification
(d) Clear

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Q12. Only _____ will the competitive urge

(a) Than
(b) Thus
(c) So
(d) Then

Q13. moral and deeply _____. If true wealth

(a) Satisfy
(b) Satisfaction
(c) To satisfy
(d) Satisfying

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) Possetion
(b) Possession
(c) Poessession
(d) Posesion

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.

Ram said, “I met her yesterday.”

(a) Ram said that he met her yesterday.
(b) Ram said he meet her the day before.
(c) Ram said that he had met her the day before.
(d) Ram met her the day before.

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 opened the lock.

(a) The lock opened by her.
(b) The lock was opened by her.
(c) The lock is open by her.
(d) The lock is to open by her.

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

All animals have

P: have memory

Q : animals do not

R : sensation but some

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

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

Drawn

(a) Tense
(b) Thin
(c) Relaxed
(d) Drained

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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.

Benison

(a) Amen
(b) Approval
(c) Blessing
(d) Execration

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

Contrite

(a) Determined
(b) Specific
(c) Devise
(d) Regretful

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

Banal

(a) Original
(b) Commonplace
(c) Distinctive
(d) Sharp

Q22. 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.

A youth is _____ who is not a child anymore and is yet to enter adulthood.

(a) Someone
(b) No one
(c) Anyone
(d) Every

Q23. 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.

_____ is not well with her.

(a) This
(b) Always
(c) It
(d) All

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'.

In 2003, Delhi won the first 'Clean Cities International (1)/ Partner of the Year' award at its "bold efforts to curb (2)/ air pollution and support alternative fuel initiatives". (3)/ No error (4)

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

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 'NoError'.

My first (1)/ task has (2)/ to go for shopping. (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.

Army : Soldier : : ? : ?

(a) Troupe : Artist
(b) Principal : School
(c) Tyre : Car
(d) Minister : Council

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

354 : 351 : : 478 : ?

(a) 481
(b) 447
(c) 475
(d) 477

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

PTY : DHM : : SQZ : ?

(a) IEO
(b) GEN
(c) GFN
(d) IFP

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

(a) Table Tennis - Indoor
(b) Cricket - Outdoor
(c) Football - Outdoor
(d) Indoor - Chess

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) 33 - 40
(b) 31 - 38
(c) 21 - 28
(d) 23 - 28

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

(a) IQY
(b) CKT
(c) EMU
(d) HPX

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

1. Infect 2. Inferior 3. Indulge 4. Induce 5. Indirect

(a) 52143
(b) 12453
(c) 54312
(d) 14532

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

23, 28, 34, 41, 49, ?

(a) 57
(b) 59
(c) 56
(d) 58

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

AFMG, CHOI, EJQK, GLSM, ?

(a) HMVP
(b) IOUH
(c) MOUP
(d) INUO

Q35. Rahul is taller than Richa but not shorter than Mita. Mita and Mukesh are of the same height. Rahul is shorter than Raju. Mukesh is shorter than Rahul. Amongst the students, who is the second tallest?

(a) Mita
(b) Rahul
(c) Mukesh
(d) Cannot be determined

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

Benevolent

(a) Been
(b) Nevin
(c) Lent
(d) Ben

Q37. In a certain code language, “FLUTE” is written as “UOFGV”. How is “LAMPS” written in that code language?

(a) ONKPT
(b) OZNPS
(c) OSNPZ
(d) OZNKH

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

6 × 20 ÷ 5 - 20 + 4 = ?

(a) 11
(b) 37
(c) 14
(d) 35

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

16 - 2 ÷ 40 + 4 × 18 = 40

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

Q40. If 1!9 = 20, 9!5 = 28 and 5!5 = 20, then find the value of 7!3 = ?

(a) 20
(b) 15
(c) 22

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(d) 24

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

PQPQPRRQ, PQPQRRPQ, PQPRRQPQ, PQRRPQPQ, PRRQPQPQ, _____.

(a) PQPQPQRR
(b) RRPQPQPQ
(c) PQPQPRRQ
(d) PQPQRRPQ

Q42. A cross-country race route starts and goes 2 km East, then there is a turn towards North where the route goes on for 10 km, then there is a turn towards East where the route goes on for 7 km, then there is a right turn from where the route goes on 10 km to reach the end. What is the position of the end with respect to that start?

(a) 5 km East
(b) 9 km West
(c) 5 km West
(d) 9 km East

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: All chains are ropes

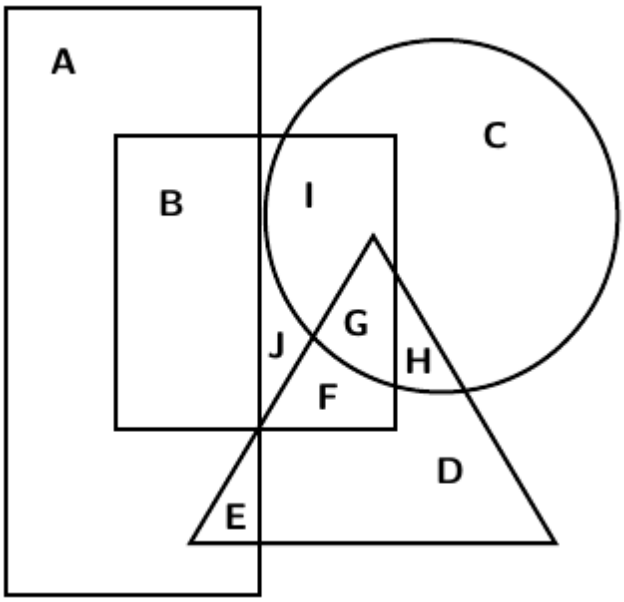
Statement II: Some links are chains

Conclusion I: Some ropes are links

Conclusion II: All links are ropes

(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 Paramedics, circle represents Athletes, triangle represents Poets and square represents Gymnasts. Which set of letters represents Gymnasts who are both Athletes as well as Poets?



(a) G
(b) GH
(c) IG
(d) IGH

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

HAT, MFY, RKD, WPI, ?

(a) YRK
(b) AWO
(c) AVM
(d) BUN

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

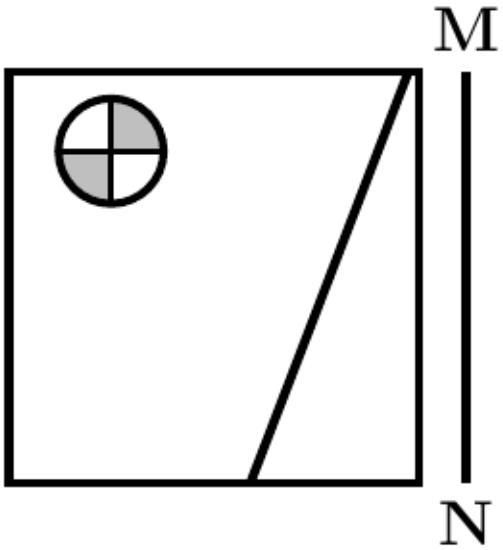
669, 660, 651, 642, 633, ?

(a) 622
(b) 620
(c) 624
(d) 618

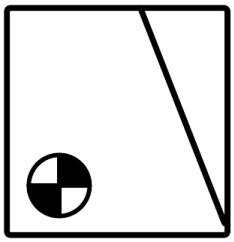
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (49, 45, 39)
(b) (73, 68, 63)
(c) (94, 89, 84)
(d) (66, 61, 56)

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

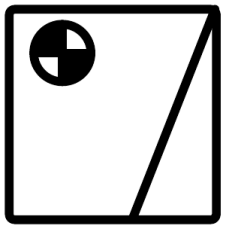


(a)

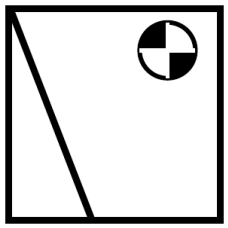


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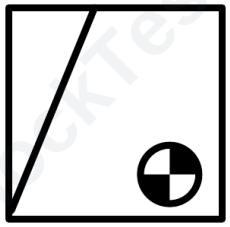
(b)



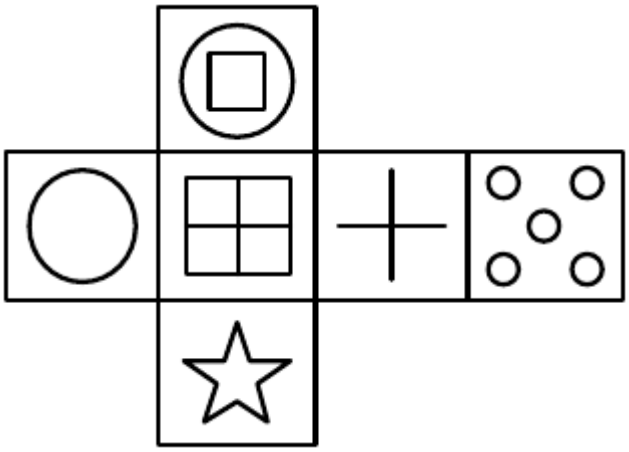
(c)



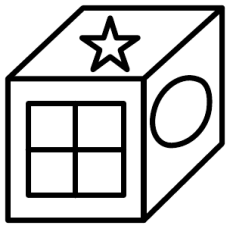
(d)



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

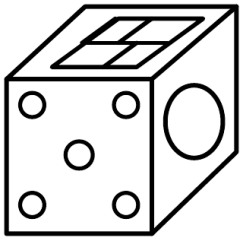


(a)

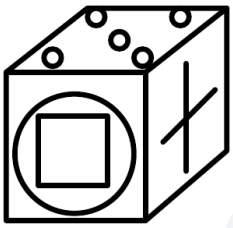


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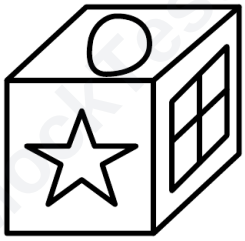
(b)



(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 ‘C’ can be represented by 30, 43 etc and ‘S’ can be represented by 86, 97 etc. Similarly, you have to identify the set for the word ‘VOLT’.

Matrix-I					
	0	1	2	3	4
0	A	F	B	I	M
1	F	C	J	C	B
2	B	G	F	F	F
3	C	L	E	J	B
4	K	A	M	C	E

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

(a) 67, 96, 31, 65
(b) 20, 89, 14, 59
(c) 43, 58, 31, 65

(d) 30, 57, 30, 68

QUANTITATIVE APTITUDE

Q51. Population of Patna city is 96,000, the decreasing rate of population is 800 per year. Population of Patliputra is 68,000, the increasing rate of population is 1200 per year. In how many years will the population of both places be equal?

(a) 10
(b) 14
(c) 18
(d) 22

Q52. The cost price of 3 exam pads and 2 pencils is Rs. 96, 4 exam pads and 3 pencils cost Rs. 134. Find the total cost (in Rs.) of an exam pad and that of a pencil.

(a) 36
(b) 38
(c) 40
(d) 42

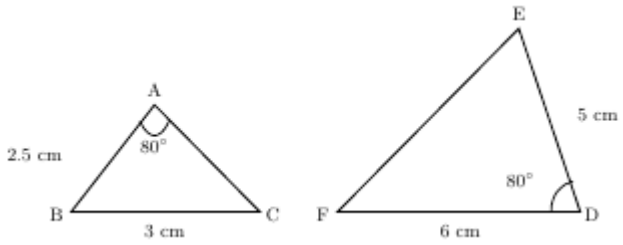
Q53. Determine the value of $x^2 + y^2$ when $x^3 - y^3 = 54$, $x - y = 18$ and $xy = 2$

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

Q54. A zoo has few numbers of penguins and polar bears. The total number of heads of both of them is 60 and the total number of their feet is 160. How many polar bears are there in the zoo?

(a) 20
(b) 40
(c) 60
(d) 80

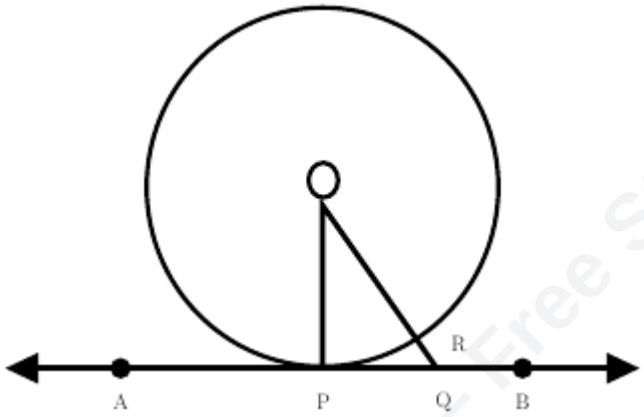
Q55. Consider the following figure shown below and choose which of the following equation is CORRECT about the similarity of both triangles?



(a) ΔABC ~ ΔDEF
(b) ΔACB ~ ΔDEF
(c) ΔABC ~ ΔFDE
(d) Both triangles are not similar.

Q56. Consider the following diagram as shown in figure in which AB is the tangent to the circle. Find the length of OQ (in cm) if the measure of largest chord of that circle is 6 cm and PQ is 4 cm.

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

Q57. The income of P is 50% more than Q's income and the income of Q is 50% more than R's income. P's income is how much percentage more than R's income?

(a) 225
(b) 150
(c) 125
(d) 100

Q58. What number should be added to each of 7, 17, 22 and 47 so that the resulting numbers will be in proportion in the given order?

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

Q59. In what ratio must a mixture of 15% spirit strength be mixed with that of 25% spirit strength to get a mixture of 21% spirit strength?

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

Q60. The average of three numbers is 58. The first number is 3/4 of the third number. If the third number is 24 more than the second number, then what will be the difference between the first number and the second number?

(a) 24
(b) 6
(c) 16
(d) 18

Q61. A sum of Rs. 2500 becomes Rs. 8100 in 2 years at a certain rate of compound interest. What will be the sum (in Rs.) after 4 years?

(a) 29824
(b) 36284
(c) 41624
(d) 26244

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Q62. Rahul sells two helmets at the rate of Rs. 1232 each. He gains 12% on one and loses 12% on the other. What will be the total loss (in Rs) in the whole transaction?

(a) 54
(b) 36
(c) 18
(d) 72

Q63. The marked price of a table is 50% more than its cost price. What discount percentage should be offered by the shopkeeper to sell his table at no profit or no loss?

(a) 66.66
(b) 33.33
(c) 40
(d) 25

Q64. What is the least number that should be added to the product $7 \times 8 \times 9 \times 10$ to make it a perfect square?

(a) 144
(b) 1
(c) 289
(d) 3

Q65. Working 9 hours a day, Manish can read a book in 16 days. How many hours a day should he work so as to finish the same work in 24 days?

(a) 4
(b) 5
(c) 8
(d) 6

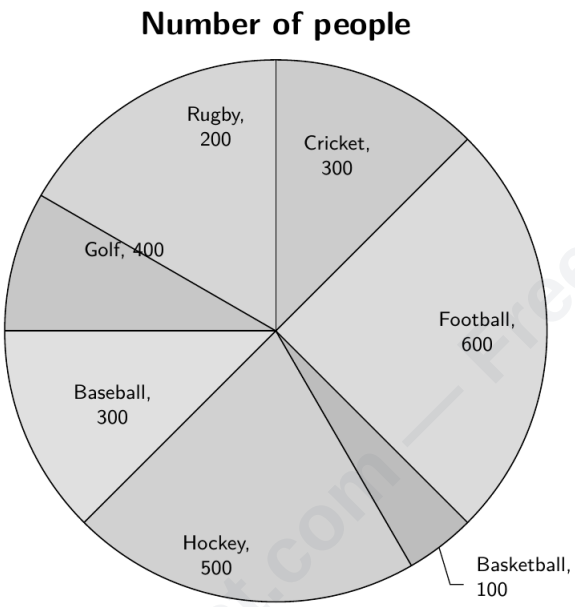
Q66. Two trains are running in opposite direction with the same speed. If the length of each train is 80 metres and they cross each other in 16 seconds, then what is the speed (in km/hr) of each train?

(a) 12
(b) 18
(c) 24
(d) 30

Directions

Direction: The pie chart shows the results of an onine survey which asked people about their favourite game. Study the diagram and answer the following questions.

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Q67. Which game is the favourite of most people surveyed?

(a) Basketball
(b) Football
(c) Hockey
(d) Baseball

Q68. What is the total number of people who have responded to the survey?

(a) 2100
(b) 2200
(c) 2400
(d) 2500

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

(a) 30
(b) 60
(c) 75
(d) 45

Q70. Respondents who say their favourite game is Cricket and those who say their favourite game is Hockey constitute what percent of the total respondents?

(a) 30%
(b) 33.33%
(c) 25%
(d) 40%

Q71. The perimeter and the breadth of a rectangle are 52 cm and 12 cm respectively. Find its area (in cm^2).

(a) 84
(b) 336
(c) 168
(d) 252

Q72. Find the perimeter (in cm) of a semicircle of radius 7 cm.

(a) 36
(b) 72
(c) 44
(d) 88

Q73. The curved surface area and the height of a right circular cylinder are 660 cm² and 10 cm respectively. Find its diameter (in cm).

(a) 14
(b) 10.5
(c) 21
(d) 17.5

Q74. What is the value of (tan30^o + √3/2)?

(a) (4 + √3)/2
(b) 5/2√3
(c) (4 + √3)/2√3
(d) (√3 + 1)/√3

Q75. In ΔXYZ measure of angle Y is 90^o. If sec X = 17/8, and XY = 0.8 cm, then what is the length (in cm) of side XZ?

(a) 1.7
(b) 1.5
(c) 2
(d) 2.5

GENERAL AWARENESS

Q76. Economic growth is usually coupled with _____.

(a) Deflation
(b) Inflation
(c) Stagflation
(d) Hyper inflation

Q77. The apex body for formulating plans and coordinating research work in agriculture and allied fields is _____.

(a) Indian Council of Agricultural Research
(b) Regional Rural Banks
(c) State Trading Corporation
(d) National Bank of Agriculture and Rural Development (NABARD)

Q78. After the decline of the Palas, which dynasty established its rule in Bengal?

(a) Sena dynasty
(b) Gaur dynasty
(c) Ilyas dynasty
(d) Ganesh dynasty

Q79. Which of the following were NOT related to the Congress Socialist Party?

(a) Acharya Narendradev
(b) Ram Manohar Lohia
(c) Jai Prakash
(d) Subhash Chandra Bose

Q80. Which of the following is called 'the safety valve of nature'?

(a) Earthquake
(b) Ozone gas
(c) Volcano
(d) Rivers

Q81. Which regional division the Himalayas is situated between the Kali and Tista rivers?

(a) Punjab Himalaya
(b) Nepal Himalaya
(c) Assam Himalaya

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(d) Kumaon Himalaya

Q82. The folk dance "Bohag Bihu" is popular in _____.

(a) Assam
(b) Bihar
(c) Odisha
(d) Jharkhand

Q83. With which country China has signed a free trade agreement on December 8, 2017?

(a) Pakistan
(b) Nepal
(c) Afghanistan
(d) Maldives

Q84. Who authored the book Titled ‘The Story of a Brief Marriage’, which won the DSC Prize 2017 for South Asian Literature?

(a) Anuk Arudpragasam
(b) Justin Mallik
(c) Premdass Nayyar
(d) Aziz Sharif

Q85. The present Nepal Prime Minister K.P. Sharma Oli is belong to which political party?

(a) Rastriya Janata Party Nepal
(b) Communist Party of Nepal (Unified)
(c) Nepali Congress
(d) Rastriya Prajatantra Party

Q86. What is the maximum number of electrons that can be present in a shell represented by shell number ‘n’?

(a) 2n
(b) $2n^2$
(c) n
(d) n^2

Q87. Which of the following is NOT an allotrope of carbon?

(a) Diamond
(b) Graphite
(c) C-60
(d) Methane

Q88. The definition of Money Bill is given in which article of the Indian Constitution?

(a) Article 56
(b) Article 110
(c) Article 252
(d) Article 256

Q89. In India, which kind of emergency can be proclaimed on the grounds of war or external aggression or armed rebellion?

(a) National Emergency
(b) State Emergency
(c) Financial Emergency
(d) State and Financial Emergency both

Q90. Build-up of which acid in our muscles during sudden activity causes cramps?

(a) Lactic acid
(b) Pyruvic acid
(c) Carbonic acid

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(d) Oxalic acid

Q91. Who presented that all the plants and animals are composed of cells and that the cell is the basic unit of life?

(a) M. Schleiden and T. Schwann
(b) Virchow
(c) J. E. Purkinje
(d) Leeuwenhoek

Q92. In December 2017, the Prime Minister of India approved the setting up of National Nutrition Mission (NNM) with an outlay of _____.

(a) Rs. 8046.17 crore
(b) Rs. 9046.17 crore
(c) Rs. 7046.17 crore
(d) Rs. 10,000 crore 10,

Q93. In which country the world's largest automated container terminal opened in December 2017?

(a) China
(b) Russia
(c) India
(d) Singapore

Q94. In January 2018, Indian Renewable Energy Development Agency (IREDA) raised $ 300 million via _____ at London Stock Exchange.

(a) Yellow Masala Bonds
(b) Green Masala Bonds
(c) Red Masala Bonds
(d) White Masala Bonds

Q95. On 2 January 2018, Parliament passed NABARD (Amendment) Bill, 2017 which provides that Union Government alone must hold at least how much capital share of NABARD?

(a) 48%
(b) 70%
(c) 51%
(d) 60%

Q96. A bullet of mass 10 g is fired with a velocity of 20 m/s from a gun of mass 2 kg. Find the recoil velocity (in m/s) of the gun.

(a) 1
(b) 0.2
(c) 0.1
(d) 2

Q97. The product of force and the time for which the force acts on a body is equal to the change in _____ of the body.

(a) Acceleration
(b) Torque
(c) Momentum
(d) Velocity

Q98. Earthquake tremors are caused by the disturbance deep down inside the uppermost layer of the earth called the _____.

(a) Core
(b) Kernel
(c) Pith
(d) Crust

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Q99. Which of the statements given below are correct?

A) Fan Zhendong won the Tennis 2017 Cincinnati Masters Men's Singles.

B) In 2018 IPL auctions, Mumbai Indians retained Sunil Narine.

C) Australia won the 2016–17 Women's FIH Hockey World League Final.

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

Q100. Computers and communication technologies affect our lives in ways that include _____ and in the way we learn and shape the course of our learning according to our own interests.

(a) Societal
(b) Technological
(c) Educational
(d) Personal

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) Flounder

The correct option is Flounder.

Key Points

Reading the given sentence we find that:

• The word flounder is correctly spelt in the given question.

• Flounder: To struggle to move or to obtain footing; thrash about wildly.

• Example: The poor horse was floundering in the mudb.

Therefore, the correct answer is flounder.

Q2. Answer: (d) ACB

The correct answer is ACB.

Key Points

Reading the above question we find that:

• The first fixed part ends with an adjective small.

• Therefore it should be followed by a noun.

• Out of all the given options, only A starts with a noun.

• In option 1 ABC we find that it ends with C which has a possessive pronoun 'my' in the end.

• Since a sentence cannot end with a possessive pronoun option 1 ABC can be eliminated.

• This leaves us with the final option starting with A i.e ACB.

• Therefore the correct answer is ACB.

The correct sentence will be: I say a small prayer whenever I ring the doorbell to my next assignment.

Q3. Answer: (a) Cleaned

The correct answer is Cleaned.

Key Points

Reading the given sentence we find that:

• The verb kept is used in the first part of the sentence.

• Therefore the sentence is in the simple past tense.

• Thus the tense of the other verbs must align with the tense of the sentence.

• For the verb clean, its simple past tense is cleaned.

Therefore the correct answer is Cleaned.

The correct sentence will be: We kept aside our clothes, cleaned our hiking boots and made sure we had our thick woollen socks.

Q4. Answer: (b) Were replaced

The correct answer is Were replaced.

Key Points

Reading the sentence we find that:

• The verb "replaced" shows the sentence is in the simple past tense.

• So, past tense should be used further as well. Therefore, option 4 is wrong.

• Also, there are two subjects- the steam engines and the old first-class coaches.

• That means, plural subject, so according to the sub-verb agreement, the plural verb should be used. Thus, option 1 is incorrect.

• The given sentence is in the passive voice form in the simple past tense.

• Thus, the helping verb "were" is used with V3, i.e. replaced. So, option 2 i.e. "were replaced" is the correct answer.

Therefore the correct answer is Were replaced.

Q5. Answer: (d) Reminiscence

The correct answer is Reminiscence

Key Points

Let's look at the meaning of the options given below:

• Antithetic -perfect for describing something that clashes with or cancels something else out.

• Disparate - essentially different in kind; not able to be compared; unlike; unalike.

• Conjecture - an opinion or conclusion formed on the basis of incomplete information.

• Reminiscence -a characteristic of one thing that is suggestive of another; a story told about a past event remembered by the narrator.

Clearly, option 4 i.e. Reminiscence gives the best substitute for given sentence.

Q6. Answer: (b) Churlish

The correct answer is Churlish.

Key Points

Let's look at the meaning of the given options.

• Affable -friendly, good-natured, or easy to talk to; cordial.

• Churlish - rude in a mean-spirited and surly way.

• Cordial - friendly, good and easy to talk to.

• Genteel - characterized by exaggerated or affected politeness, refinement, or respectability.

Thus from the the given meanings we can conclude that the correct answer is Churlish.

Q7. Answer: (c) A person or thing that one is extremely pleased or relieved to see.

The correct answer is A person or thing that one is extremely pleased or relieved to see.

Key Points

Let's look at the meaning of the given sentence.

• A sight for sore eyes: A person or a thing that one is relieved to see.

• Example: The enigmatic professor's entry was a sight for the sore eyes.

Therefore the correct answer is A person or thing that one is extremely pleased or relieved to see.

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Q8. Answer: (c) A device not working properly or at all.

The correct answer is A device not working properly or at all.

Key Points

Let's look at the meaning of the given phrase:

• Be out of order: Not working properly; not in the correct sequence.

Therefore from the given meaning, we find that the correct answer is A device not working properly or at all.

Q9. Answer: (c) In

The correct answer is In.

Key Points

Reading the passage we find that:

• The passage explains on morals of not taking harsh steps to end corruption.

• It also explains that money should not be given much priority.

• Now, the blank is followed by "order".

• So, the apt word should be in, that is in order.

• It means in the correct condition for operation or use.

• So, the context explains we cannot create harsh laws to end the operation of corruption.

Thus, the correct answer is In.

Q10. Answer: (b) Natural

The correct answer is Natural.

Key Points

Reading the given sentence we find that:

Here we need an adjective that can give more meaning to the noun society.

Let's look at the meaning of the given options.

• Nature: Is a noun that means the phenomena of the physical world.

• Natural: An adjective that means existing in or derived from nature.

• Naturally: An adverb that means without special intervention.

• Naturism: Is a noun that means the style and theory of representation.

Important Points

Thus from the given meanings, we find that:

• Only the word natural is an adjective and only it can be used with the noun society.

• Furthermore, the meaning of the word fits in contextually with the given sentence.

Therefore the correct answer is Natural.

Q11. Answer: (d) Clear

The correct answer is Clear.

Key Points

Reading the given sentence we find that:

• An adjective should be used in the blank to give more meaning to the noun definition.

• Out of all the given options, only clear is an adjective.

Therefore the correct answer is Clear.

Additional Information

• Clearly is an adverb.

• Clarity is a noun that means to be coherent.

• Clarification: is a noun that is the art of making a statement or less confusing and more comprehensible.

Q12. Answer: (d) Then

The correct answer is Then.

Key Points

Reading the given sentence we find that:

• An adverb that means 'after that or next' should come here.

• Here we are talking about something that is coming after something.

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• Therefore the correct adverb to be used here is Then.
• Then: An adverb which means after that; next; afterwards.
Thus the correct answer is Then.

Q13. Answer: (d) Satisfying

The correct answer is Satisfying.
Key Points
Reading the given sentence we find that:
• The word deeply is an adverb and an adverb always modifies a verb or an adjective.
• In the given options we have a verb i.e Satisfy and an adjective i.e Satisfying.
• Reading the whole sentence we find that:
• There is no particular action is taking place in the given sentence.
• Instead, the sentence is talking about the qualities that money should have.
• Thus we need an adjective here instead of a verb.
Therefore the correct answer is Satisfying which is an adjective.

Q14. Answer: (b) Possession

The correct answer is Possession.
Key Points
Reading the given question we find that:
• Here, the word "possession" is correctly spelt.
• Possession: the state of having, owning, or controlling something.
• Example: She had taken possession of the house.
Therefore, the correct answer is Possession.

Q15. Answer: (c) Ram said that he had met her the day before.

Correct option - 3
Here, direct speech is given. So, we change it into indirect speech. The sentence in inverted commas is given in simple past tense. So, it changes into past perfect tense in indirect. Thus, option 3 is the correct answer.

Q16. Answer: (b) The lock was opened by her.

Correct option - 2
Here, active voice is given. So, we change it into passive voice. The tense used is simple past tense. So, following pattern is used :-
Obj + was/were + V3 +by +Sub.
Thus, option 2 is the correct answer.

Q17. Answer: (c) RQP

The correct answer is RQP.
Key Points
Reading the given question we find that:
• Clearly, the sentence does not end with a helping verb "do not" and a determiner "some", they give incomplete meaning.
• Keeping this in mind we can eliminate PRQ and PQR i.e option 1 and 2.
• QRP i.e option 1 is incorrect because Q should be followed by the main verb, and not a noun.
• In the given question the word sensation is a noun.
Therefore the correct sequence will be RQP.
The correct sentence is: All animals have sensation but some animals do not have memory.

Q18. Answer: (c) Relaxed

The correct answer is Relaxed.
Key Points
Let's look at the meaning of the given word and the correct option.
• Drawn: Looking strained from illness, exhaustion, anxiety or pain.
• Relaxed: Free from tension and anxiety.

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Thus from the given meanings, we find that the correct answer is Relaxed.

Q19. Answer: (d) Execration

The correct answer is Execration.

Key Points

Let's look at the meaning of the given option and the correct word.

• Benison: A blessing.

• Execration: The act of cursing or denouncing someone.

Thus from the given meanings, it is clear that both the words express the opposite meaning.

Therefore the correct answer is Execration.

Additional Information

Let's look at the meaning of the other given options.

• Amen: An utterance at the end of a prayer or hymn.

• Approval: The act of approving something.

• Blessing: A gift from the heavens.

Q20. Answer: (d) Regretful

The correct answer is Regretful.

Key Points

Let's look at the meaning of the given word and the correct option.

• Contrite: feeling or expressing remorse at the recognition that one has done wrong; regretful; penitent.

• Regretful: feeling or showing regret.

Thus from the given meanings, we find that both words express similar meanings.

Therefore the correct answer is Regretful.

Additional Information

Let's look at the meaning of the other given options.

• Determined: Having reached a decision.

• Specific: Cleverly defined or identified.

• Devise: Plan or invent by careful thought.

Q21. Answer: (b) Commonplace

The correct answer is Commonplace.

Key Points

Let's look at the meaning of the given word and the correct option.

• Banal: Common; predictable; conventional.

• Commonplace: Something that is conventional and common.

Thus from the given meanings, we find that both the words express similar meanings.

Therefore the correct answer is Commonplace.

Additional Information

Let's look at the meaning of the other given words.

• Original: Present or existing from the beginning.

• Distinctive: Characteristic of one person or thing.

• Sharp: Having an edge or point that is able to cut.

Q22. Answer: (a) Someone

Correct option - 1

Here, a positive word should be used because "not" is already given. Thus, option 2 is incorrect. And, "anyone" is used for a question or to produce a negative meaning. But, the phrase is complete till the blank, after that another phrase starts. So, option 3 is eliminated. And, 'every' is determiner that is used to point out noun but now relative pronoun "who". So, option 4 is wrong. Thus, option 1 is the correct answer.

Q23. Answer: (d) All

The correct answer is All.

Key Points

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Reading the above sentence we find that:

• All is well is a general expression in the English Language which means everything is fine.

• Thus from the given expression, we can come to the conclusion that the correct answer here should be All.

• Using all gives proper contextual meaning to the sentence that everything is not fine with her.

Thus, the correct answer is All.

Q24. Answer: (b) 2

The correct answer is 2.

Key Points

Reading the given sentence we find that:

• The error lies in the second part of the sentence.

• 'Award at its bold efforts' is wrong as the preposition for is used with Awards.

• Awards are given for an achievement.

• Thus, the preposition for should be used here in place of at.

• Example:-

• We use for to talk about a purpose or a reason for something.

• I'm going for some breakfast.

• She was waiting at the corner.

Thus we can conclude that the error lies in part 2 of the sentence.

Q25. Answer: (b) 2

Correct option - 2

Here, action is done by the subject "I", not the "task". It is an action that has to be done. So, it is 'I' who goes to shopping. So, replace has with is. Thus, option 2 is the correct answer.

Q26. Answer: (a) Troupe : Artist

An Army of Soldiers is a collective noun.

Similarly, a Troupe of Artist is also a collective noun.

Hence, answer is ‘Troupe : Artist’.

Q27. Answer: (c) 475

The pattern/logic/rule followed here is:

354 - 3 = 351

Similarly,

478 - 3 = 475

Hence, answer is ‘475’.

Q28. Answer: (b) GEN

The pattern/logic/rule followed here is:

P - 12 = D

T - 12 = H

Y - 12 = M

Similarly,

S - 12 = G

Q - 12 = E

Z - 12 = N

Hence, answer is ‘GEN’.

Q29. Answer: (d) Indoor - Chess

The pattern followed here is (Game - type of game INDOOR/OUTDOOR)

‘Indoor - Chess’ does not follows the above pattern.

Hence, ‘Indoor - Chess’ is the odd one out.

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Q30. Answer: (d) 23 - 28

Here the pattern of relation followed is (Number - Number + 7)

All except '23 - 28' follows the above pattern of relation.

Hence, '23 -28' is the odd one out

Q31. Answer: (b) CKT

The pattern/logic/rule followed here is:

1) IQY → I + 8 = Q; Q + 8 = Y

2) CKT → C + 8 = K; K + 9 = T

3) EMU → E + 8 = M; M + 8 = U

4) HPX → H + 8 = P; P + 8 = X

Clearly, 'CKT' does not follows the same pattern/logic/rule as other three options.

Hence, 'CKT' is the odd one out.

Q32. Answer: (c) 54312

Dictionary sequence is as follows:

5. Indirect

4. Induce

3. Indulge

1. Infect

2. Inferior

Hence, answer is '54312'.

Q33. Answer: (d) 58

The logic/rule followed here is:

23 + 5 = 28; 28 + 6 = 34; 34 + 7 = 41; 41 + 8 = 49; 49 + 9 = 58

Hence, answer is '58'.

Q34. Answer: (d) INUO

The logic/rule followed here is:

A + 2 = C; C + 2 = E; E + 2 = G; G + 2 = I

F + 2 = H; H + 2 = J; J + 2 = L; L + 2 = N

M + 2 = O; O + 2 = Q; Q + 2 = S; S + 2 = U

G + 2 = I; I + 2 = K; K + 2 = M; M + 2 = O

Hence, answer is 'INUO'.

Q35. Answer: (b) Rahul

1) Rahul is taller than Richa but not shorter than Mita.

Rahul > Richa and

Rahul > Mita

2) Mita and Mukesh are of same height.

Mita = Mukesh

3) Rahul is shorter than Raju.

Raju > Rahul

From 1, 2 and 3 - we get:

CASE 1: Raju > Rahul > Richa > Mita = Mukesh

CASE 2: Raju > Rahul > Mita = Mukesh > Richa

In both the case Rahul is the second tallest person.

Hence, Rahul is the second tallest person.

Q36. Answer: (b) Nevin

We have to checked each Option:

Option (1): Been (Can be formed using the letters of "Benevolent").

Option (2): Nevin (Cannot be formed using 'Benevolent' because there is no 'I' in it.)

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Option (3): Lent (Can be formed using the letters of "Benevolent")

Option (4): Ben (Can be formed using the letters of "Benevolent")

Hence, the correct answer is "Nevin".

Q37. Answer: (d) OZNKH

The logic/rule followed here is:

The alphabet is replaced by the alphabet which have same positional value in reverse alphabetical series.

F → U

L → O

U → F

T → G

E → V

Similarly,

L → O

A → Z

M → N

P → K

S → H

Hence, answer is ‘OZNKH’.

Q38. Answer: (a) 11

Symbol	•	•	×	÷
Meaning	÷	×	•	•

Given equation: 6 × 20 ÷ 5 - 20 + 4 = ?

On replacing the symbol:

6 - 20 + 5 × 20 ÷ 4 = ?

→ 6 - 20 + 5 × 5

→ 6 - 20 + 25

→ 31 - 20

→ 11

Hence, answer is ‘11’.

Q39. Answer: (a) ÷ and -

Given equation:

16 - 2 ÷ 40 + 4 × 18 = 40

After interchanging ‘÷ and -’ we get:

L.H.S of equation: 16 ÷ 2 - 40 + 4 × 18 = 40

→ 16 ÷ 2 - 40 + 4 × 18

→ 8 - 40 + 72

→ 80 - 40

→ 40 = R.H.S

Hence, answer is ‘÷ and -’.

Q40. Answer: (a) 20

The logic/rule followed here is:

1!9 = 20 → (1 + 9) × 2 = 20

9!5 = 28 → (9 + 5) × 2 = 28

5!5 = 20 → (5 + 5) × 2 = 20

7!3 → (7 + 3) × 2 = 20

Hence, answer is ‘20’.

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Q41. Answer: (b) RRPQPQPQ

P	Q	P	Q	P	R	R	Q
P	Q	P	Q	R	R	P	Q
P	Q	P	R	R	Q	P	Q
P	Q	R	R	P	Q	P	Q
P	R	R	Q	P	Q	P	Q
R	R	P	Q	P	Q	P	Q

Hence, answer is ‘RRPQPQPQ’.

Q42. Answer: (d) 9 km East

Hence, the end position is 9 km to the East of the starting position.

Q43. Answer: (a) Only conclusion I follows

Conclusion I: Some ropes are links → True (As, All chains are ropes and Some links are chains)

Conclusion II: All links are ropes → False

Hence, only conclusion I follows.

Q44. Answer: (a) G

Hence, G represents Gymnasts who are both Athletes as well as Poets.

Q45. Answer: (d) BUN

The logic/rule/relation followed here is:

Hence, answer is ‘BUN’.

Q46. Answer: (c) 624

The logic/rule/relation followed here is:

669 - 9 = 660;

660 - 9 = 651;

651 - 9 = 642;

642 - 9 = 633;

633 - 9 = 624

Hence, answer is ‘624’.

Q47. Answer: (a) (49, 45, 39)

The logic/rule/relation followed here is:

1) (49, 45, 39) → 49 - 4 = 45; 45 - 6 = 39

2) (73, 68, 63) → 73 - 5 = 68; 68 - 5 = 63

3) (94, 89, 84) → 94 - 5 = 89; 89 - 5 = 84

4) (66, 61, 56) → 66 - 5 = 61; 61 - 5 = 56

Clearly, (49, 45, 39) does not follows the same pattern as others.

Hence, (49, 45, 39) is the odd one out.

Q48. Answer: (c) [figure]

Hence, answer is option ‘3’.

Q49. Answer: (b) [figure]

From the figure we can conclude:

1) The face of dice with star will be opposite to the side with circle and square.

2) The side with plus will be opposite the side with circle.

3) The side with four squares will be opposite to the side with five small circles.

Here in the figure above side with four squares and the side with five small circles are adjacent to each other.Hence, it cannot be made based on the unfolded cube in the question figure.

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Q50. Answer: (a) 67, 96, 31, 65

1) 67, 96, 31, 65 → V, O, L, T
2) 20, 89, 14, 59 → B, T, B, X
3) 43, 58, 31, 65 → C, Q, L, T
4) 30, 57, 30, 68 → C, X, C, Q
Hence, answer is '67, 96, 31, 65'.

Q51. Answer: (b) 14

Calculation:
Let the population of both places will be equal in x years
So, according to the question,
96000 - 800x = 68000 + 1200x
=> 2,000x = 28,000
Therefore x = 14 years

Q52. Answer: (b) 38

Calculation:
Let the cost of one exam pad be x
And the cost of one pencil be y
According to question
=> 3x + 2y = 96 ----(1)
=> 4x + 3y = 134 ----(2)
Subtract equation (1) from equation (2) we get
=> x + y = 38
So, the total cost of an exam pad and a pencil is Rs. 38.

Q53. Answer: (b) 1

Given:
$x^3 - y^3 = 54$, $x - y = 18$ & $xy = 2$
Calculation:
As we know, $x^3 - y^3 = (x - y)(x^2 + y^2 + xy)$
=> $54 = 18 \times (x^2 + y^2 + 2)$
=> $3 = x^2 + y^2 + 2$
Therefore $x^2 + y^2 = 1$

Q54. Answer: (a) 20

Shortcut Trick
If all 60 animals were penguins (2 feet), the total number of feet would be 60 × 2 = 120.
The extra feet given in the question = 160 − 120 = 40.
Each polar bear contributes an extra 2 feet (since 4 − 2 = 2).
Number of polar bears = Total extra feet ÷ Extra feet per bear = 40 ÷ 2 = 20.
Therefore The correct answer is 20 polar bears.
Alternate Method
Given:
=> Total number of heads = 60
=> Total number of feet = 160
=> Feet per penguin = 2
=> Feet per polar bear = 4
Method 1: Alligation Approach
=> If all animals were penguins, total feet = 60 × 2 = 120.
=> If all animals were polar bears, total feet = 60 × 4 = 240.
=> The average total feet given is 160.
Penguins (2 feet)

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Polar Bears (4 feet)

120

240

160

80

40

Ratio → 80 : 40 = 2 : 1

=> The ratio of penguins to polar bears is 2 : 1.

=> Total ratio parts = 2 + 1 = 3.

=> Number of polar bears = (1 ÷ 3) × 60 = 20.

Method 2: Linear Equation

=> Let the number of penguins be P and polar bears be B.

=> Total heads: P + B = 60 ... (Equation 1)

=> Total feet: 2P + 4B = 160

=> Dividing by 2: P + 2B = 80 ... (Equation 2)

=> Subtracting (1) from (2): (P + 2B) − (P + B) = 80 − 60.

=> B = 20.

Therefore The correct answer is 20 polar bears.

Additional Information

Heads and Legs Direct Formula

For mixtures of 2-legged and 4-legged animals, the exact number of 4-legged animals can be directly found using: (Total Legs ÷ 2) − Total Heads.

Alligation Cross Method

It is a quick ratio determination technique used when two discrete properties are mixed to produce a known overall average value. Subtract diagonally to find the base ratio components.

Linear Algebraic Elimination

Forming two basic simultaneous equations is a universal rule for standard replacement and count problems to ensure maximum accuracy if shortcuts are forgotten.

Q55. Answer: (d) Both triangles are not similar.

Calculation:

We know, two triangles are similar, if their corresponding angles are equal and their corresponding sides are in the same ratio or proportion.

Given, angle A = angle D = 80,

But, AB/AC ≠ DE/DF

So, we can say both triangles are not similar.

The SAS similarity criterion refers that If two sides of one triangle are respectively proportional to two corresponding sides of another, and if the included angles are equal, then the two triangles are similar

When two pairs of sides are proportional and one pair of angles are congruent, the angles are not the included angles. This is SSA, which is not a similarity criterion.

Q56. Answer: (d) 5

Calculation:

We know, the diameter is the largest chord of the circle

If diameter = 6,

So, radius (r) = 3

As we know, OP

AB (tangent to the circle)

So, in right-angled triangle OPQ

=> OP = 3 (radius of the circle)

=> PQ = 4

By Pythagoras theorem

=> $(OQ)^2 = (OP)^2 + (PQ)^2$

=> $(OQ)^2 = 3^2 + 4^2$

Therefore OQ = 5 cm

Q57. Answer: (c) 125

Calculation:

Let the income of the R be 100

Income of the Q = 100 × 150/100 = 150

Income of the R = 150 × 150/100 = 225

So, the Income of P is more than R's income by = (225 - 100)/100 × 100

= 125%

Therefore , the Income of P is more than R's income by 125%

Q58. Answer: (b) 3

Calculation:

Let us add x to each of the four numbers to make the resulting numbers in proportion

(7 + x)/(17 + x) = (22 + x)/(47 + x)

=> (7 + x) (47 + x) = (22 + x)(17 + x)

=> $329 + 7x + 47x + x^2 = 374 + 22x + 17x + x^2$

=> 15 x = 45

=> x = 3

Q59. Answer: (b) 2 : 3

Given:

a mixture of 15% spirit strength be mixed with that of 25% spirit strength to get a mixture of 21% spirit strength

Concept used:

Method of Alligation

Calculation:

Using allegation method

Therefore required ratio = 4 : 6 = 2 : 3

Q60. Answer: (b) 6

Calculation:

The average of three numbers = 58

So, the sum of three numbers = 58 × 3 = 174

Let the third number be 4x

So, the first number = 3x

So, the second number = 4x - 24

According to the question

=> 3x + 4x - 24 + 4x = 174

=> 11x = 198

=> x = 18

So, the first number = 3 × 18 = 54

The second number = 4 × 18 - 24 = 48

Therefore The difference between the first number and the second number = 54 - 48 = 6

Q61. Answer: (d) 26244

Calculation:

Principal = 2500 & Amount = 8100

As we know, $A = P (1 + r/100)^2$

=> $(1 + r/100)^2 = 81/25$

=> 1 + r/100 = 9/5

=> r = 80%

Amount after 4 years

A = 2500 (1 + 80/100)^4

=> A = 2500 × 9/5 × 9/5 × 9/5 × 9/5
Therefore A = 26244

Q62. Answer: (b) 36

Calculation:
SP of one helmet = 1232
SP of two helmets = 1232 × 2 = 2464
CP of first helmet = 1232 × 100/112 = 1100
CP of second helmet = 1232 × 100/88 = 1400
Total CP of two helmets = 1100 + 1400 = 2500
As we know, loss = CP - SP
Therefore Loss = 2500 - 2464 = 36

Q63. Answer: (b) 33.33

Calculation:
Let the CP of the table be 100
MP of the table = 100 × 150/100
= 150
If no loss & no profit, then
Discount % = (150 - 100)/150 × 100
= 33.33%
Therefore Discount % = 33.33%

Q64. Answer: (b) 1

Calculation:
To make the perfect square
=> 7 × 8 × 9 × 10
=> 7 × 2 × 2 × 2 × 3 × 3 × 2 × 5 = 5040
=> 5040 is not a perfect square and we know 5041 is a perfect square.
Therefore we add 1 in 5040 to make the perfect square.

Q65. Answer: (d) 6

Calculation:As we know, t1× d1= t2× d2
So, t1 = 9 hr, d1 = 16 days, & d2 = 24 days
=> 9 × 16 = t2× 24
Therefore t2 = 6 hr

Q66. Answer: (b) 18

Given:
speed of first train (S1) = speed of second train (S2)
Length of first train = Length of second train = 80 m
Time = 16 sec
Calculation:
If opposite direction, then
Total speed = S1 + S2
As we know, speed = distance/time
Total speed = (80 + 80)/16 m/sec
=> S1 + S2 = 10
=> 2S1 = 10
=> S1 = 5 m /sec
=> S1 = 5 × 18/5 = 18 km/hr
Therefore speed of the train is 18 km/hr

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Q67. Answer: (b) Football

Football game is the favourite of most people surveyed (600).

Q68. Answer: (c) 2400

Calculation:

Total number of people who have responded to the survey

=> 300 + 600 + 100 + 500 + 300 + 400 + 200

=> 2400

Q69. Answer: (d) 45

Total number of people who have responded to the survey = 2400

We know, total sector 2400 represents = 360°

So, Baseball sector 300 represents = 360°/2400 × 300 = 45°

Q70. Answer: (b) 33.33%

We know total respondent = 2400

Respondents who say their favourite game is cricket and Hockey = 300 + 500 = 800

Therefore Required percentage = 800/2400 × 100 = 33.33%

Q71. Answer: (c) 168

Calculation:

We know, perimeter of the rectangle = 2 × (Length + Breadth)

Area of the rectangle = Length × Breadth

Given, perimeter of the rectangle = 52 & Breadth = 12

=> 2 × (Length + Breadth) = 52

=> Length + 12 = 26

=> Length = 14

Therefore Area of the rectangle = 12 × 14 = 168 cm^2

Q72. Answer: (a) 36

Calculation:

We know, the perimeter of a semicircle = πr + 2r

Given, radius = 7 cm

So, perimeter of a semicircle = 22/7 × 7 + 2 × 7

= 36 cm

Therefore The perimeter of a semicircle is 36 cm.

Q73. Answer: (c) 21

Given:

the curved surface area of the cylinder = 660 cm^2

Height of cylinder = 10 cm

Calculation:

We know, the curved surface area of a cylinder = 2πrh

So, 2πrh = 660

=> 2 × 22/7 × r × 10 = 660

=> r = 21/2

So, diameter of cylinder = 2 × 21/2

= 21 cm

Therefore The diameter of the cylinder is 21 cm.

Q74. Answer: (b) 5/2√3

Calculation:

(tan30^o + √3/2) = 1/√3 + √3/2

= (2 + 3)/2√3

= 5/2√3

Q75. Answer: (a) 1.7

Given:

angle Y = 90°, sec X = 17/8

Calculation:

Sec x = hypotenuse/base = XZ/XY

= 17/8

If XY = 0.8

=> 8 unit = 0.8

=> 1 unit = 0.1

=> (XZ) = 17 unit = 1.7

Therefore the length of XZ is 1.7 cm

Q76. Answer: (b) Inflation

• Inflation is a good indicator of economic growth because whenever there is economic growth, the wealth of the people of the country also increases.

• Due to increase in wealth, the spending increases. As the spending increases, the demand increases leading to increase in price causing inflation.

Term	Meaning
Deflation	Deflation occurs when the inflation rate falls below 0% (a negative inflation rate
Stagflation	situation where the inflation rate is high, the economic growth rate slows down, and unemployment remains steadily high
Hyper inflation	Very high inflation

Q77. Answer: (a) Indian Council of Agricultural Research

The correct answer is Indian Council of Agricultural Research.

Key Points

• The Indian Council of Agricultural Research is responsible for formulating plans and conducting research work in agriculture and its allied fields.

• It reports to the Department of Agricultural Research and Education, Ministry of Agriculture.

• The Union Minister of Agriculture serves as its president.

• It is the largest network of agricultural research and education institutes in the world.

Q78. Answer: (a) Sena dynasty

• The Sena dynasty took over after the Pala dynasty saw its decline.

• It was led by King Vijaysena. The Sena dynasty ruled over Bengal in the 11^(th) and 12^(th) century and they were orthodox Hindus.

Q79. Answer: (d) Subhash Chandra Bose

• Subhash Chandra Bose was a member of the Indian National Congress, he was elected as the president of the party in 1938.

• In June of 1939, he also established the All India Forward Bloc, a left-wing faction within Congress.

Congress Socialist Party	Socialist caucus within the Indian National Congress
Founded on	1934
Key members	Rambriksh Benipuri, Jai Prakash Narayan, Ram Manohar Lohia, Acharya Narendra Deva

Q80. Answer: (c) Volcano

• Volcanoes are known as the safety valves of nature

• A safety valve is an opening that opens up to release built-up pressure inside equipment which can cause the equipment to dysfunction

• Similarly, there are huge pressures and high temperatures inside the Earth as you go closer to the Earth's core

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• This pressure is sometimes relieved in the form of volcanic eruptions that discharge large amounts of magma, heat and gases that are built up within the Earth and thus it is known as 'a safety valve' of the planet

Q81. Answer: (b) Nepal Himalaya

• Nepal Himalayas stretches for a distance of 800 km between the Kali and the Tista rivers. Most of it lies in Nepal as a result of which it is called the Nepal Himalayas.

Kashmir or Northwestern Himalayas	**It comprise a series of ranges such as the Karakoram, Ladakh, Zaskar and Pir Panjal.**
The Himachal and Uttaranchal Himalayas	This part lies approximately between the Ravi in the west and the Kali (a tributary of Ghaghara) in the east
The Darjiling and Sikkim Himalayas	They are flanked by Nepal Himalayas in the west and Bhutan Himalayas in the east
The Arunachal Himalayas	Extend from the east of the Bhutan Himalayas up to the Diphu pass in the east
The Eastern Hills and Mountains	These are part of the Himalayan mountain system having their general alignment from the north to the south direction

Q82. Answer: (a) Assam

• Bohag Bihu is indigenous to Assam and is related to the festival of Bihu, it is the main festival of the state.

• It is a group dance usually performed by young men and women and it involves using rapid hand movements and brisk steps.

Q83. Answer: (d) Maldives

• On December 8, 2017 during Maldivian President Abdulla Yameen's four-day visit to Beijing, is Maldives' first with any country.

• Maldives has become the second South Asian country after Pakistan to sign a Free Trade Agreement with China.

Q84. Answer: (a) Anuk Arudpragasam

• Anuk Arudpragasam's story of a young man displaced by civil war in Sri Lanka was awarded the DSC Prize for South Asian Literature.

• The Story of a Brief Marriage is Colombo-born Arudpragasam's debut novel and was first released in 2016 in English. The author, also writes in Tamil apart from English.

Q85. Answer: (b) Communist Party of Nepal (Unified)

• The 38^(th) Prime Minister of Nepal is from the Communist Party of Nepal, he is one of the two chairmen of the party and has assumed office from February 18 2018 under the new constitution of Nepal.

Q86. Answer: (b) $2n^2$

• Each shell can contain only a fixed number of electrons. The general formula is that the n^(th) shell can in principle hold up to $2n^2$ electrons.

Shell	**Electrons**
K Shell	2
L Shell	8
M Shell	18

Q87. Answer: (d) Methane

• Methane is not an allotrope of carbon, it is a hydrocarbon compound with the formula CH4. An allotrope cannot be a compound and hence methane is the right answer.

• The definition for an allotropes is that they are different physical forms in which an element can exist. Graphite, charcoal, C-60 and diamond are all allotropes of carbon.

Q88. Answer: (b) Article 110

Money Bill refers to a bill (draft law) introduced in the Lower Chamber of Indian Parliament (Lok Sabha) which generally covers the issue of receipt and spending of money, such as tax laws, laws governing borrowing and expenditure of the Government, prevention of black money etc. It is mentioned in Article 110 of Indian Constitution.

Article 56	**Term of office of President**

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Article 252	Power of Parliament to legislate for two or more states by consent and adoption of such legislation by any other state
Article 256	Obligation of states and the Union

Q89. Answer: (a) National Emergency

• A national emergency as stated under article 352 can be proclaimed on basis of external aggression or armed rebellion in the whole of India or a part of its territory.

Type Of Emergency	Related Article
National Emergency	Article 352
Financial Emergency	Article 360
President's Rule	Article 356 & 365

Q90. Answer: (a) Lactic acid

• Whenever sudden activity of a muscle takes place the muscles cannot be supplied with enough oxygen.

• To satisfy the need of energy anaerobic respiration takes place forming lactic acid as the by product. Lactic acid causes pain and stiffness in the muscles.

Q91. Answer: (a) M. Schleiden and T. Schwann

• M. Schleiden and T. Schwann cofounded the theory that the cell is the basic unit of life in 1804 in Neuss which is near Dusseldorf in Germany.

• The cell theory states that all plants and animals are made up of cells and the cell is the basic unit of life.

Q92. Answer: (b) Rs. 9046.17 crore

The National Nutrition Mission has been setup with a budget of Rs 9046.17 Crore for a period of 3 years and its main aim is to increase the nutritional education on the country and to generate more awareness towards it.

Q93. Answer: (a) China

• The terminal opened in Shanghai Yangshan Deep Water Port. The project uses automated handling equipment designed and manufactured in China.

• The machinery used in loading and unloading, including a bridge crane, an automated guided vehicle (AGV) and a rail-mounted gantry crane, are all made in China by Shanghai Zhenhua Heavy Industries Company.

Q94. Answer: (b) Green Masala Bonds

• The five year dated green Masala bond raised approximately $300 million (INR 19.5 billion) with a coupon of 7.125 per cent and becomes the first green Masala bond to be listed on London Stock Exchange's International Securities Market (ISM).

• The green bond is certified by Climate Bonds Initiative, an international, investor-focused not-for-profit, which helps build robust and transparent assurance frameworks around green bond investment.

Q95. Answer: (c) 51%

The bill passed states that the Union Government must hold at least 51% stake of capital share in NABARD.

NABARD	National Bank for Agriculture and Rural Development
headquartered at	Mumbai
Founded	12 July 1982
Agency executive	Harsh Kumar Bhanwala (Chairman)

Q96. Answer: (c) 0.1

The correct answer is 0.1.

Key Points

• The mass of the ejected body and the mass of the recoiling body are related to one another by the law of conservation of momentum which is obtained from Newton's laws of motion.

• According to the law of conservation of momentum, for every action, there is an equal and opposite reaction. Recoiling velocity is an example of this law. From the law, it can be said that

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• m1v1 = - m2v2

• m1 and v1 are the mass and velocity of the bullet

• m2 and v2 are the mass and velocity of the gun

• Here m1= 10g = 0.01 kg, v1 = 20 m/s and m2 = 2 kg,

=> m1 v1 = - m2 v2

=> 0.01 x 20 = - 2 x v2

=> v2 = 0.2 / 2 = 0.1 m/s

Note: Recoil velocity will always be negative as the gun will always move in the opposite direction of the fired bullet.

Q97. Answer: (c) Momentum

• The statement is from Newton's Second Law of Motion which states that the rate of change of momentum of an object is directly proportional to the resultant force applied and is in the direction of the resultant force.

• The resultant force is equal to the rate of change of momentum.

Q98. Answer: (d) Crust

• Most earthquakes occur along the edge of the oceanic and continental plates. The earth's crust (the outer layer of the planet) is made up of several pieces called plates.

• The plates under the oceans are called oceanic plates and the rest are continental plates. Earthquakes usually occur where two plates are running into each other or sliding past each other.

Q99. Answer: (d) None of these

None of these statements are true.

• Fan Zhendong was the runner up at the World Table Tennis Championship in 2017

• Sunil Narine was not retained and played for the Kolkata Knight Riders

• Netherlands won the 2016-17 Women's FIH Hockey World League Final

Q100. Answer: (c) Educational

• Computers and communication technologies affect our lives in ways that include educational and in the way we learn and shape the course of our learning according to our own interests.

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