SSC CHSL Previous Paper 35 (Held On: 19 March 2018 Shift 3) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, 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 few moment (1)/ of deliberation (2)/ gave her the solution. (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'.

Delhi had been captured, ransacked and rebuilt several (1)/ times and modern Delhi is a cluster of a number (2)/ of cities spread across the metropolitan region. (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 closure _____ the workers adversely.

(a) Expected
(b) Effected
(c) Accepted
(d) Affected

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.

An independent, impartial, speedy, and _____ judicial system is the very essence of civilisation.

(a) Efficient
(b) Adjacent
(c) Violent
(d) Present

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

Meticulous

(a) Perfectionist
(b) Sloppy
(c) Inaccurate

(d) Faulty

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

Impetus

(a) Implication
(b) Encouragement
(c) Evidence
(d) Hinderance

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

Ostracise

(a) Embrace
(b) Exile
(c) Avoid
(d) Deport

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

Ingratiating

(a) Humble
(b) Proud
(c) Soft
(d) Obedient

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

Many people look down upon

P: they feel that

Q: abstract art because

R: abstractionists compose irrationally

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

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.

She expects good news.

(a) Good news is expected by her.
(b) News should be good by her.
(c) Good news was expected by her.
(d) Good news expected.

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.

“Do you write with a left hand?” she asked.

(a) She asked whether I wrote with a left hand.
(b) She asked that did I wrote with a left hand.
(c) She asked about my writing.
(d) She ask if I write with my left hand.

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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) Guarantiei
(b) Guarantee
(c) Gaurantee
(d) Garantee

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.

It is necessary, then, to keep our _____ acts under some surveillance of attention, to pass them in review for inspection every now and ____, that we may discover possible modifications which will make them more serviceable. We need to be ____, constantly to find out better ways of doing things. Habit takes care of our standing, walking, sitting; but how many of us could ____ improve his poise and carriage if he would? Our speech has become largely automatic, but no doubt all of us might remove _____ of enunciation, pronunciation or stress from our speaking.

Q13. to keep our _____ acts under some surveillance

(a) Habitual
(b) Habit
(c) Habitually
(d) Habits

Q14. every now and _____, that we may

(a) Than
(b) Then
(c) That
(d) This

Q15. We need to be _____, constantly to find

(a) Inventive
(b) Invention
(c) Invent
(d) Inventor

Q16. many of us could _____ improve his poise

(a) No
(b) None
(c) Nor
(d) Not

Q17. might remove _____ of enunciation,

(a) Fault
(b) Faulty
(c) Faulting
(d) Faults

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

Come what may

(a) Welcome all visitors with open arms.
(b) No matter what happens.
(c) Insure all your property from all kinds of losses.
(d) Willing to become whatever fate has in store for your future.

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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.

Against the clock

(a) One can't fight one's fate.
(b) Work very fast to complete something within a deadline.
(c) Time will march on ceaselessly irrespective of what you do.
(d) The person who manages time will be successful.

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

A system of religious belief; a faith

(a) Nihilism
(b) Heresy
(c) Impiety
(d) Creed

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

A formal speech, especially one given on a ceremonial occasion

(a) Oration
(b) Reticent
(c) Bashful
(d) Taciturn

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".

Environmental care (had slowly regressing) to the back of our daily requirements.

(a) Is slowly regressing
(b) Were slowly regressing
(c) Are slowly regress
(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".

They are giving something back to the planet that (being defiled) every day in a thousand ways.

(a) Is been defiled
(b) Is being defiled
(c) Is been defiling
(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.

I would then look

A- do some hand-holding and when they were

B- around for my colleagues to

C- not in sight, pray for divine intervention

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

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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) Desendent
(b) Descendant
(c) Iliterrate
(d) Descendente

GENERAL INTELLIGENCE

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

Hexagon : Six : : ? : ?

(a) Triangle : Two
(b) Square : Five
(c) Rectangle : Four
(d) Pentagon : Four

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

41 : 66 : : ? : ?

(a) 29 : 54
(b) 32 : 59
(c) 31 : 54
(d) 33 : 59

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

CPW : BOV : : KQH : ?

(a) JPG
(b) LRI
(c) LRJ
(d) JQG

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

(a) Sunday
(b) Thursday
(c) Monday
(d) June

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

(a) 17 - 51
(b) 19 - 57
(c) 13 - 37
(d) 23 - 69

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

(a) BGLR
(b) DINS
(c) HMRW
(d) KPUZ

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

1. Plight 2. Plush 3. Platter 4. Plateau 5. Plate

(a) 45312
(b) 54312

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(c) 12354
(d) 31524

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

21, 25, 34, 50, ?, 111

(a) 80
(b) 75
(c) 65
(d) 92

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

GX, JU, MR, PO, ?

(a) SK
(b) SL
(c) RM
(d) RL

Q35. Burman remembers that the cricket match is after 19^(th) July but before 22nd July, while Sumit remembers that the cricket match is before 25^(th) July but after 20^(th) July. On which date of July is the cricket match?

(a) 20
(b) 21
(c) 22
(d) 19

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

Obliterate

(a) Lobe
(b) Treat
(c) Rate
(d) Life

Q37. In a certain code language, “STOINS” is written as “ROHPST”. How is “MARCUS” written in that code language?

(a) VBRSYM
(b) SYNVBZ
(c) RZBNVM
(d) RVBSZN

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

20 + 5 x 4 ÷ 7 - 2 = ?

(a) 14
(b) 17
(c) 43
(d) 18

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

9 ÷ 3 - 30 x 7 + 6 = 15

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

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Q40. If 7*7 = 140, 6*1 = 70 and 3*5 = 80, then find the value of 4*4 = ?

(a) 60
(b) 80
(c) 10
(d) 40

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

ABCABABAB, CABABABAB, ABABABACB, ABABACBAB, ABACBABAB, _____.

(a) ABABCABAB
(b) ACBABABAB
(c) ABCABABAB
(d) CABABABAB

Q42. An army recruit is training. He starts and runs 2 km East, then 3 km South, then 5.5 km West, then 4 km North, then 3.5 km East, where is he now with reference to the starting position?

(a) 8 km North
(b) 6 km South
(c) 1 km North
(d) 7 km 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: No statues are icons.

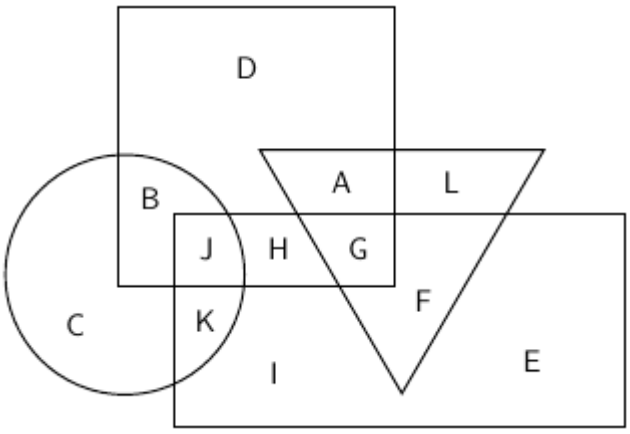
Statement II: Some busts are statues.

Conclusion I: No icons are busts.

Conclusion II: Some busts are icons.

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Either conclusion I or conclusion II follows

Q44. In the following figure, rectangle represents Pharmacists, circle represents Bloggers, triangle represents Trekkers and square represents Gymnasts. Which set of letters represents Gymnasts who are not Bloggers?



(a) DAGH
(b) BJK
(c) KIE
(d) AL

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

RMA, TOC, VQE, XSG, ?

(a) YVJ
(b) ZUI
(c) AVJ
(d) BWK

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

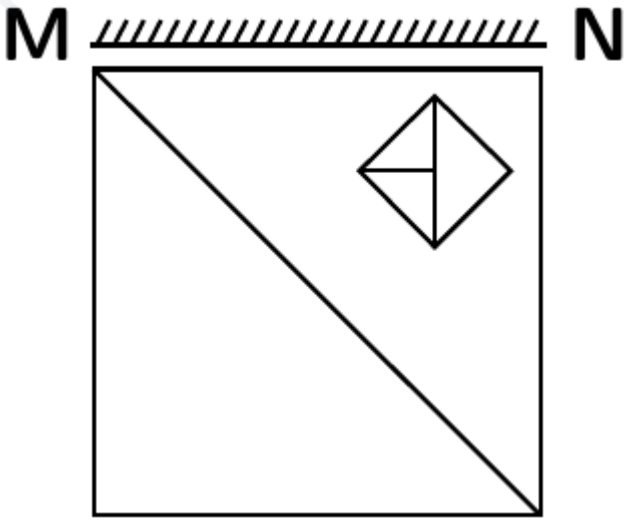
5, 9, 13, 17, ?

(a) 19
(b) 25
(c) 21
(d) 24

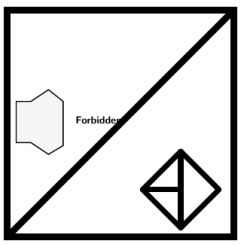
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (3, 6, 12)
(b) (4, 8, 16)
(c) (7, 14, 28)
(d) (6, 18, 36)

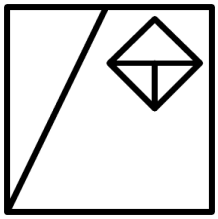
Q48. mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



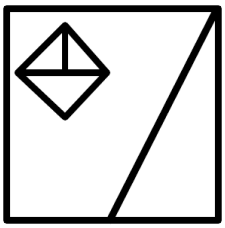
(a)



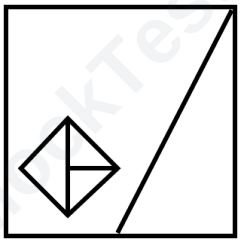
(b)



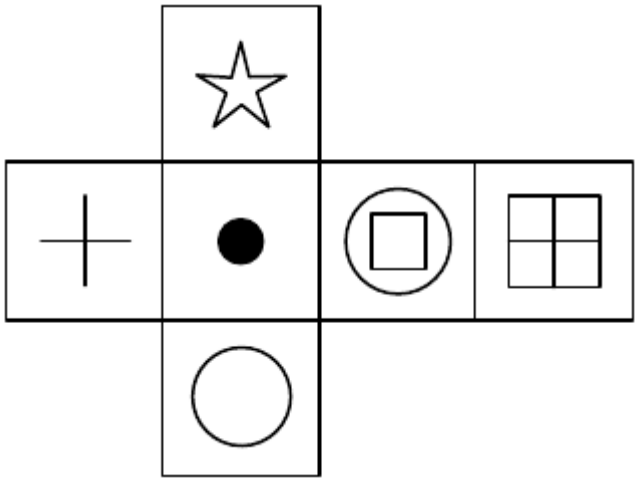
(c)



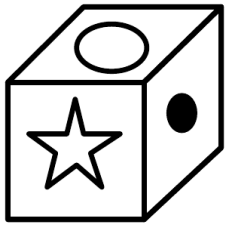
(d)



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

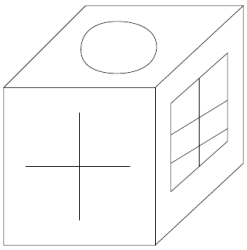


(a)

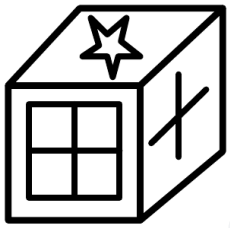


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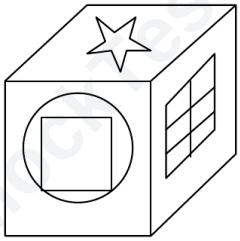
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The set of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The coulmns and rows of Matrix - I 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 coulm, for example ‘G’ can be represented by, 31, 43 etc and ‘Q’ can be represented by 96, 99 etc. Similarly, you have to identify the set for the word ‘WAXY’.

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

(a) 41, 57, 12, 66
(b) 68, 42, 98, 85
(c) 44, 56, 13, 56
(d) 24, 75, 44, 78

QUANTITATIVE APTITUDE

Q51. Amit is five years older than Vaibhav at present. After four years the ratio of their ages will be 5 : 4. What is Amit's age (in years) at present?

(a) 12
(b) 16
(c) 18

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(d) 21

Q52. If (7x + 9y)/(3x - 4y) = 19/8, then the value of x/y is _____.

(a) 148/1
(b) 1/148
(c) 145/1
(d) 1/145

Q53. If p + 1/p = √10, then find the value of p^4 + 1/(p^4)

(a) 52
(b) 60
(c) 62
(d) 65

Q54. If z = 6 – 2√3, then find the value of (√z - 1/(√z))²

(a) (102 - 46√3)/4
(b) (102 - 46√3)/2
(c) (102 - 46√3)/24
(d) (12 - 46√3)/24

Q55. What is the total number of circles passing through the two fixed points?

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

Q56. If the angle ABC and angle ACB of triangle ABC is 80° and 60° respectively. If the Incenter of the triangle is at point 'I' then calculate angle BIC.

(a) 55°
(b) 80°
(c) 110°
(d) 120°

Q57. The value of a machine depreciates at the rate of 20% per annum. If its present value is Rs. 96000, then what was the value (in Rs.) of the machine 2 years ago?

(a) 138240
(b) 134400
(c) 150000
(d) 144000

Q58. The incomes of S and T are in the ratio 3 : 4 and their expenditures are in the ratio 1 : 1. If S saves Rs. 4000 and T saves Rs. 22000, then what will be the income (in Rs.) of S?

(a) 45000
(b) 54000
(c) 60000
(d) 65000

Q59. X and Y started a business by investing Rs .171000 and Rs. 243000 respectively. If X's share in the profit earned at the end of year is Rs. 3800, then what will be the total profit (in Rs) earned by them together?

(a) 9200
(b) 9600
(c) 8400
(d) 8800

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Q60. The average expenditure of Raman for 5 days is Rs. 130. If his expenditure for the first 4 days is Rs. 100, Rs. 125, Rs. 85, and Rs. 160 respectively, then what is his expenditure (in Rs) of the 5^(th) day?

(a) 165
(b) 180
(c) 185
(d) 195

Q61. A sum of Rs. 8000 is borrowed at a compound interest at the rate of 7% per annum. What will be the amount (in Rs.) after 2 years?

(a) 1154.4
(b) 13600
(c) 9159.2
(d) 9428.6

Q62. Cost price of a cooler is Rs 8400. If the profit percentage is 26%, then what is the selling price (in Rs) of the cooler?

(a) 11351
(b) 6667
(c) 10584
(d) 9564

Q63. On selling a book at 9/14 of the marked price, there is a loss of 10%. What will be the ratio of marked price and cost price of the book?

(a) 5 : 9
(b) 5 : 8
(c) 7 : 4
(d) 7 : 5

Q64. What is the positive square root of [25 + 4√39]

(a) √13 + 2√3
(b) √13 + 3√2
(c) √11 + 2√3
(d) 11 + 3√2

Q65. Two pipes P and Q can fill an empty tank in 25 hours and 20 hours respectively. Pipe R alone can empty the completely filled tank in 50 hours. Firstly both the pipes P and Q are opened and after 8 hours pipe R is also opened. What will be the total time (in hours) taken to completely fill the tank?

(a) 12
(b) 10
(c) 14
(d) 13

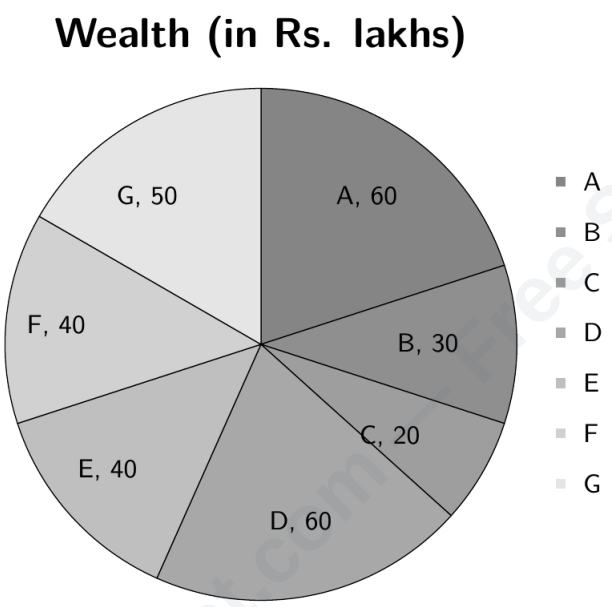
Q66. Rohit crosses a 700 metres wide road in 35 seconds. What is his speed (in km/hr)?

(a) 54
(b) 76
(c) 72
(d) 84

Directions

The pie chart shows the distribution of wealth between 7 children according to their father’s will. Study the diagram and answer the following questions.

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Q67. Which child got the least share of wealth according to the will?

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

Q68. What is the total wealth (in Rs lakhs) of the father which was distributed according to the will?

(a) 300
(b) 400
(c) 360
(d) 240

Q69. The measure of the central angle of the sector representing the share of wealth that D gets is _____ degrees.

(a) 72
(b) 60
(c) 50
(d) 75

Q70. If 40% wealth tax has to be paid on the wealth that each child receives then how much wealth tax (in Rs lakhs) does C have to pay?

(a) 8
(b) 10
(c) 12
(d) 4

Q71. The perimeter of a square is 22 cm. Find its area (in cm^2).

(a) 60.5
(b) 22.5
(c) 45
(d) 30.25

Q72. If the circumference of a circle is 88 cm, then what must be its area (in cm^2)?

(a) 1232
(b) 616
(c) 704
(d) 1408

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Q73. Find the total surface area (in cm²) of a right circular cylinder of diameter 7 cm and height 6 cm.

(a) 187
(b) 209
(c) 163
(d) 149

Q74. ΔPQR is right angled at Q. If angle P = 60°, then find the value of (cotR + √3/2).

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

Q75. ΔABC is right angled at B. If cot A = 8/15, then what is the value of cos C?

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

GENERAL AWARENESS

Q76. What is "NIKKEI"?

(a) Share Price Index of Tokyo Share Market
(b) Name of Japanese Central Bank
(c) The Japanese name of country's Planning Commission
(d) Foreign Exchange Market of Japan

Q77. Which five year plan aimed at following regional approach, instead of a sectoral approach so as to bring down regional inequalities?

(a) Ninth Five- year plan
(b) Eighth Five -year plan
(c) Tenth Five -year plan
(d) Eleventh Five- year plan

Q78. Saint Ramananda associated with which of the following branches?

(a) Ram Magri
(b) Premashrayi
(c) Gyanashrayi
(d) Karmashrayi

Q79. Who of the following leaders is NOT associated with Champaran Satyagraha?

(a) Anugraha Narain Sinha
(b) J.B. Kripalani
(c) Braj Kishore Prasad
(d) Sardar Patel

Q80. Whose science is Seismography?

(a) Rivers
(b) Earthquake
(c) Mountain
(d) Volcano

Q81. What is called the small grasslands on the slopes of Lesser Himalayan range in Jammu and Kashmir?

(a) Marg
(b) Bugyal
(c) Payar

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(d) Duar

Q82. Folk dance "Lai Haraoba" is popular in which Indian state?

(a) Assam
(b) Manipur
(c) Mizoram
(d) Nagaland

Q83. Which countries organized joint military exercise named ‘Mitra Shakti’ in October 2017?

(a) India-Sri Lanka
(b) India-Nepal
(c) India-Japan
(d) India-Bhutan

Q84. Who among the following has been crowned Miss Universe in Las Vegas on November 26, 2017?

(a) Shraddha Shashidhar
(b) Demi-Leigh Nel-Peters
(c) Iris Mittenaere
(d) Laura Gonzalez

Q85. What is called the descendants of Dutch and Portuguese colonies in Sri Lanka?

(a) Sinhalese
(b) Tamil
(c) Burgher
(d) Vedda

Q86. Match the following items of column (A) with column (B).

Column A	Column B
I. Electron	1. Goldstein
II. Proton	2. Thomson
III. Neutron	3. James Chadwick

(a) I - 3, II - 1, III - 2
(b) I - 2, II - 1, III - 3
(c) I - 2, II - 3, III - 1
(d) I - 1, II - 2, III - 3

Q87. Generally covalently bonded molecules _____.

I. Have high boiling and melting point as compared to ionically bonded molecules
II. Are poor conductors of electricity.
III. Have weak inter-molecular force.

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

Q88. Who summons the joint sitting of both the houses of the Indian Parliament?

(a) Prime Minister of India
(b) President of India
(c) Speaker of Lok Sabha
(d) Chairman of Rajya Sabha

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Q89. Which bill can be introduced without the prior recommendation of the President of India?

(a) Money Bill
(b) Ordinary Bill
(c) Both
(d) None

Q90. Where does glucose break down into pyruvate?

(a) Golgi bodies
(b) Cytoplasm
(c) Chloroplast
(d) Protoplasm

Q91. In December 2017, the Prime Minister of India inaugurated the B. R. Ambedkar International Centre in _____.

(a) Mumbai
(b) Ahmedabad
(c) New Delhi
(d) Hyderabad

Q92. Who expanded the cell theory and suggested that all the cells arise from pre-existing cells?

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

Q93. Which enzyme has been used by scientists of Massachusetts Institute of Technology to induce plants to give off the dim light?

(a) Carotenogen
(b) Luciferase
(c) Reductase
(d) Peroxidase

Q94. On 29 September 2017, SEBI allowed Sovereign wealth fund and other long term Foreign Portfolio Investors (FPIs) to buy corporate debt up to _____ in infrastructure sector.

(a) Rs. 9500 crore
(b) Rs. 5000 crore
(c) Rs. 15,000 crore
(d) Rs. 20,000 crore

Q95. On 2 January 2018, Parliament Passed NABARD (Amendment) Bill, 2017. The Bill seeks to increase the capital of NABARD from Rs 5,000 crore to _____.

(a) Rs. 30,000 crore
(b) Rs. 10,000 crore
(c) Rs. 20,000 crore
(d) Rs. 40,000 crore

Q96. Find the acceleration (in m/s^2) produced in a body of mass 10 kg when a force of 20 N is applied on it

(a) 200
(b) 4
(c) 2
(d) 100

Q97. The product of mass of a body and the acceleration produced in it equals the _____ acting on it.

(a) Force
(b) Impulse
(c) Torque

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(d) Kinetic energy

Q98. The process of transferring of charge from a charged object to the earth is called _____.

(a) Neutralisation
(b) Negation
(c) Terraforming
(d) Earthing

Q99. Which of the statements given below are correct?

A) Lewis Hamilton won the Formula One 2017 Chinese Grand Prix
B) Belgium hosted the Tennis 2017 Davis Cup Final.
C) Sebastian Vettel won the Formula One 2017 Brazilian Grand Prix.

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

Q100. The overall capabilities of CCT are understood by all because _____ are information processing tools.

(a) Computers
(b) DVD
(c) Internet
(d) CD

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 1

The erroneous part is: 'The few moment'.

Key Points

• 'Few' deals with plural countable nouns.
• For example: Books, papers, etc.
• As it denotes a plural entity, the noun that follows it must also be plural.
• 'moment' is a singular noun. Hence, it must be replaced by a plural noun.
• 'moments' should replace 'moment'.

Therefore, the correct answer is: The few moments of deliberation gave her the solution.

Additional Information

• The subdivisions of the usage of 'few' are given below:
• Few- a small number of something.

• A Few- Some

• The Few- not many

Q2. Answer: (a) 1

The correct answer is Option 1)

Key Points

• 'Delhi has been' should be there in place of 'Delhi had been'

• The present perfect is a verb tense which is used to show that an action has taken place once or many times before now. The present perfect is most frequently used to talk about experiences or changes that have taken place, but there are other less common uses as well.

• Since we are talking about Delhi the above-mentioned actions happened sometime in the past but Delhi is still evolving and is now a cluster of cities, hence the action is still in progress, therefore "has been" is the most appropriate.

• So, present perfect will be more accurate to use here.

Additional Information

• Ransacked means go through (a place) stealing things and causing damage

• Cluster means a group of similar things or people positioned or occurring closely together

• Across is a preposition which means from one side to the other of (a place, area, etc.)

Thus, the correct sentence is: Delhi has been captured, ransacked, and rebuilt several times and modern Delhi is a cluster of a number of cities spread across the metropolitan region.

Q3. Answer: (d) Affected

Here the correct answer is Affected.

Key Points:-

• In the above given blank, 'affected' will be used.

• The closing of a shop or factory would have a harmful impact on its workers, who will lose their jobs.

• Adverse*(adjective)* - preventing success or development; harmful; unfavourable.

• For Example - Taxes are having an adverse effect on production.

• Affected*(adjective)* - influenced or touched by an external factor.

• For Example - It gave her a strange sense of loss that affected her more than she wanted to admit.

• The sentence tells that the workers will be influenced by the closure in a harmful way.

• Thus, 'affected' is the most appropriate option.

Therefore, the correct sentence is The closure affected the workers adversely.

Additional Information

• Let's look at the meaning of the other options:-

• Expected = believed that something will happen.

• Effected = caused to come into being

• Accept = believed to be correct.

Q4. Answer: (a) Efficient

The correct answer is efficient

Key Points

• Efficient: productive.

• Adjacent: next to; close to.

• Violent: hurtful; using physical force.

• Naturally, we want a judicial system that delivers speedy justice and is productive in the way it uses time. thus, Option 1) Efficient is the correct answer.

Q5. Answer: (a) Perfectionist

The correct answer is Perfectionist

Key Points

• Meticulous: very careful about details; precise; striving to be absolutely perfect.

• Sloppy: careless; excessively casual.

• Perfectionist: a person who refuses to accept any standard short of perfection.

• Inaccurate: not accurate

• Faulty: not working or made correctly; having defects
• Thus, Option 1) Perfectionist is the correct answer.

Q6. Answer: (b) Encouragement

Impetus = something that makes a process or activity happen or happen more quickly; incentive; motivation. Thus, Option 2) Encouragement (motivation) is a synonym.

Implication = the conclusion that can be drawn from something although it is not explicitly stated.

Hinderance = blockage; handicap.

Evidence = proof.

Q7. Answer: (a) Embrace

Ostracise = exclude from a society or group. Thus, Option 1) Embrace (accept; welcome) is an antonym.

Exile = expel and bar (someone) from their native country, typically for political or punitive reasons.

Deport is a synonym of exile.

Q8. Answer: (b) Proud

The solution is in Hindi. Read it online.

Q9. Answer: (b) QPR

A sentence can't end with because => Q can't be third => rule out 3) and 4).

P can't be first since it starts with they and look down upon they will be grammatically incorrect. Rule out 1).

Option 2) QPR is the correct answer.

Many people look down upon abstract art because they feel that abstractionists compose irrationally.

Q10. Answer: (a) Good news is expected by her.

The correct answer is Option 1)

Explanation:

The given sentence is given in active voice to convert it into passive voice, the following changes should be done:

• While converting the voice, subject, and object to change their places.
• 'Good news' is an object in an active voice that becomes the subject in the passive voice.
• 'She' which is a subject in the active voice becomes 'her' (objective case) object in passive voice.
• Simple present tense in active voice becomes (is + V3) in passive voice.
• The preposition 'by' is introduced before the 'object'

Thus, the sentence becomes: Good news is expected by her.

Q11. Answer: (a) She asked whether I wrote with a left hand.

The correct answer is She asked whether I wrote with a left hand.

Key Points

• The above-given sentence is a question-sentence. Such a question can be answered by saying only 'Yes' or 'No'.
• To make an indirect speech of such questions, the word 'if' or 'whether' will be used in indirect speech.
• Both the words 'if' and 'whether' can be used interchangeably.
• Question mark (?) will not be used in the indirect speech of interrogative sentences.
• The question sentence will be expressed in assertive or positive form instead of interrogative form in the indirect speech i.e. helping verb will come after subject
• Present Indefinite tense in direct speech is changed into past indefinite tense in indirect speech.
• Hence, from the above rules option 1) i.e. She asked whether I wrote with left hand is the correct answer.

Q12. Answer: (b) Guarantee

The correct spelling is 2) Guarantee.

Q13. Answer: (a) Habitual

The correct answer is Habitual

Key Points

• We need an adjective to qualify the noun 'acts'.
• Habitual is an adjective which means usual or repeated

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• Habit is a noun that means something that you do often and regularly, sometimes without knowing that you are doing it.
• Habitually is an adverb
• Habits is plural of habit

Important Points

• The word which qualifies a noun is an adjective.

Q14. Answer: (b) Then

The correct answer is then

Key Points

• every now and then: from time to time; occasionally.

Example: I used to see him every now and then.

Q15. Answer: (a) Inventive

The correct answer is Inventive

Key Points

• We need to be ____ = clearly, it requires an adjective to describe what we need to be.
• Inventive is an adjective that means having the ability to create or design new things or to think originally.
• Invention is a noun
• Invent is a verb.
• Inventor is a noun

Q16. Answer: (d) Not

The correct answer is not

Key Points

To imply the negative of a verb (here; could improve), we use 4) not.

Additional Information

• Carriage: a person's bearing or deportment

Example: her carriage was graceful, her movements quick and deft

• Poise: graceful and elegant bearing in a person

Example: poise and good deportment can be cultivated

Q17. Answer: (d) Faults

The correct answer is faults

Key Points

• 'All of us' is plural. Option 4) faults is the correct answer. Note that the writer is talking in general. It is highly unlikely that he will say a single fault plagues all of us which will rule out 1).
• faulty is an adjective which means not working or made correctly; having defects
• faulting means a crack in the earth's crust resulting from the displacement of one side with respect to the other

Additional Information

• Enunciation: say or pronounce clearly

Q18. Answer: (b) No matter what happens.

The solution is in Hindi. Read it online.

Q19. Answer: (b) Work very fast to complete something within a deadline.

The correct answer is Option 2)

Key Points

• Against the clock: if you do something against the clock, you do it fast in order to finish before a certain time

Example: I was racing against the clock, but I finished the test just before the bell

• Thus, Option 2) Work very fast to complete something within a deadline is the correct answer.

Q20. Answer: (d) Creed

Option 4) Creed (faith; religion) is the correct answer.

Nihilism = Belief that life is meaningless.

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Heresy = belief or opinion contrary to orthodox religious (especially Christian) doctrine.

Impiety = lack of religiousness.

Q21. Answer: (a) Oration

The correct answer is Oration

Key Points

• Oration: speech or address on an important event

Example: Pericles' famous funeral oration

• Reticent: not revealing one's thoughts or feelings readily; introverted; shy.

Example: she was extremely reticent about her personal affairs.

• Bashful: shy.

Example: everything you need to know but have been too bashful to ask.

• Taciturn: someone who doesn't talk much; brief.

Example: After such gatherings she would be taciturn and morose

Q22. Answer: (a) Is slowly regressing

Environmental care = singular => rule out 2) and 3). Had slowly regressing is a grammatically incorrect phrase => rule out 4). Option 1) is slowly regressing is the correct answer.

Q23. Answer: (b) Is being defiled

The correct answer is - Is being defiled.

Key PointsWe use continuous tense when the work is still going on. Here, the answer "Is being defiled" is in Present Continuous tense as the defiling process is still going on.

So, the correct sentence will be - They are giving something back to the planet that is being defiled every day in a thousand ways.

Q24. Answer: (c) BAC

Only B can be first in the sequence. With A (look do some) and C (look not), it will be grammatically incorrect. Option 3) BAC is the correct answer.

I would then look around for my colleagues to do some hand-holding and when they were not in sight, pray for divine intervention.

Q25. Answer: (b) Descendant

The correct spelling is Descendant

Key Points

• Descendant: a person, plant, or animal that is descended from a particular ancestor.

Example: she's a descendant of Charles Darwin

• For Option 3, the correct spelling is illiterate.

• Illiterate: ignorant in a particular subject or activity

Example: the extent to which voters are politically illiterate

Q26. Answer: (c) Rectangle : Four

The related word pair is:

Hexagon: Six → Hexagon has six sides.

Similarly,

Rectangle: Four → Rectangle has four sides.

Hence, Rectangle : Four is the related word pair.

Q27. Answer: (a) 29 : 54

The logic followed is :

41 : 66 → 41 : 41 + 25 = 66

Similarly,

29 : 54 → 29 : 29 + 25 = 54

Hence, 29 : 54 is the correct answer.

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Q28. Answer: (a) JPG

The related word is:

Similarly,

Hence, JPG is the correct answer.

Q29. Answer: (d) June

Except June all are weekdays whereas June is a month.

Hence, June is the correct answer.

Q30. Answer: (c) 13 - 37

The logic followed is:

1) 17 - 51 → 17 - (17 × 3)

2) 19 - 57 → 19 - (19 × 3)

3) 13 - 37 → 13 - 37

4) 23 - 69 → 23 - (23 × 3)

Hence, the correct answer is 64.

Q31. Answer: (a) BGLR

The logic followed is:

Hence, the correct answer is BGLR.

Q32. Answer: (b) 54312

The dictionary order of the words are:

5. Plate

4. Plateau

3. Platter

1. Plight

2. Plush

Hence, the correct answer is 54312.

Q33. Answer: (b) 75

The logic followed is:

$21 + 2^2 = 21 + 4 = 25$

$25 + 3^2 = 25 + 9 = 34$

$34 + 4^2 = 34 + 16 = 50$

$50 + 5^2 = 50 + 25 = 75$

$75 + 6^2 = 75 + 36 = 111$

$111 + 7^2 = 111 + 49 = 160$

Hence, the correct answer is 75.

Q34. Answer: (b) SL

The logic followed is:

Hence, the correct answer is SL.

Q35. Answer: (b) 21

Burman remembers that the cricket match is after 19^(th) July but before 22nd July.

Possible dates accordingly is20th or 21st July

Sumit remembers that the cricket match is before 25^(th) July but after 20^(th) July.

Possible dates accordingly is 21st, 22nd, 23rd and 24th July

Common date between possible dates is 21 st July.

Hence, the correct answer is 21st July.

Q36. Answer: (d) Life

1) Lobe → Obliterate → can be formed

2) Treat → Obliterate → can be formed

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3) Rate → Obliterate → can be formed

4) Life → Obliterate → cannot be formed

Hence, the correct answer is Life.

Q37. Answer: (d) RVBSZN

Similarly,

Hence, the correct answer is RVBSZN.

Q38. Answer: (a) 14

Given equation: 20 + 5 x 4 ÷ 7 - 2 = ?

Sign	**÷**	**•**	**•**	**×**
Replacement sign	•	×	÷	•

After replacing the signs:

20 ÷ 5 - 4 + 7 × 2 = 14

Hence, the correct answer is 14.

Q39. Answer: (c) • and x

1) + and ÷ → 9 + 3 - 30 × 7 ÷ 6 = 23 ≠15

2) - and + → 9 ÷ 3 + 30 × 7 - 6 = 207 ≠15

3) + and x → 9 ÷ 3 - 30 + 7 × 6 = 15

4) ÷ and x → 9 × 3 - 30 ÷ 7 + 6 = 28.71 ≠15

Hence, interchanging + and × gives the correct equation.

Q40. Answer: (b) 80

The logic followed is:

7*7 = (7 + 7) × 10 = 140

6*1 = (6 + 1) × 10 = 70

3*5 = (3 + 5) × 10 = 80

Similarly,

4*4 = (4 + 4) × 10 = 80

Hence, the correct answer is 80.

Q41. Answer: (b) ACBABABAB

The logic followed is :

C is shited at the back of AB in first step and then in between A and B.

ABCABABAB, CABABABAB, ABABABACB, ABABACBAB, ABACBABAB, ACBABABAB.

Hence, the correct answer is ACBABABAB.

Q42. Answer: (c) 1 km North

The diagram depicts the route of an army recruit,

Hence, an army recruit is 1 km North of with reference to the starting position.

Q43. Answer: (d) Either conclusion I or conclusion II follows

The least possible venn diagram,

Conclusion I: No icons are busts → False (it is possible but not definite)

Conclusion II: Some busts are icons → False (it is possible but not definite)

Hence, conclusion I and II forms complementary pair.

Thus, either conclusion I or II follows.

Q44. Answer: (a) DAGH

Rectangle represents Pharmacists,

Circle represents Bloggers,

Triangle represents Trekkers,

Square represents Gymnasts

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Thus the letters inside the Square but not in the intersection of square and circle represent Gymnasts who are not Bloggers i.e. DAGH.

Hence, the correct answer is DAGH.

Q45. Answer: (b) ZUI

Hence, the correct answer is ZUI.

Q46. Answer: (c) 21

5 + 4 → 9

9 + 4 → 13

13 + 4 → 17

17 + 4 → 21

Hence, the correct answer is 21.

Q47. Answer: (d) (6, 18, 36)

The logic followed is :

Second number = First number × 2

Third number = First number × 4

1) (3, 6, 12) → 3, 3 × 2, 3 × 4

2) (4, 8, 16) → 4, 4 × 2, 4 × 4

3) (7, 14, 28) → 7, 7 × 2, 7 × 4

4) (6, 18, 36) → 6, 6 × 3, 6 × 6

Hence, the correct answer is (6, 18, 36).

Q48. Answer: (a) [figure]

The mirror image os the question figure is as follows :

Hence, the correct answer is option 1).

Q49. Answer: (a) [figure]

The option 1) has opposite face adjacent to each other which is not possible.

Thus option 1) is the correct answer.

Q50. Answer: (b) 68, 42, 98, 85

1) 41, 57, 12, 66 → B, Z, F, T

2) 68, 42, 98, 85 → W, A, X, Y

3) 44, 56, 13, 56 → E, Y, L, Y

4) 24, 75, 44, 78 → L, U, E, O

Hence, 68,42,98,85 is the correct answer.

Q51. Answer: (d) 21

Detailed solution:-

Let Vaibhav’s age = a and Amit’s age = 5 + a

(Amit's age after 4 years)/(Vaibhav's age after 4 years) = 5/4

=> (5 + a + 4)/(a + 4) = 5/4

=> 20 + 4a + 16 = 5a + 20

=> 5a – 4a = 16

=> a = 16

Therefore Amit’s age = 5 + a = 5 + 16 = 21

Q52. Answer: (a) 148/1

Shortcut Trick

Direct cross-multiplication of the given ratio:

8 × (7x + 9y) = 19 × (3x − 4y)

56x + 72y = 57x − 76y

Rearranging the terms: 57x − 56x = 72y + 76y

x = 148y => x/y = 148/1

Therefore The correct answer is 148/1.

Alternate Method

Given: (7x + 9y) / (3x − 4y) = 19 / 8

Calculations:

=> 8 × (7x + 9y) = 19 × (3x − 4y)

=> 56x + 72y = 57x − 76y

=> 72y + 76y = 57x − 56x

=> 148y = x

=> x / y = 148 / 1

Therefore The correct answer is 148/1.

Additional Information

Componendo and Dividendo Rule

If a/b = c/d, then (a + b) / (a − b) = (c + d) / (c − d). This rule is frequently used to simplify ratios involving linear expressions.

Alternendo and Invertendo

Invertendo states that if a/b = c/d, then b/a = d/c. Alternendo states that if a/b = c/d, then a/c = b/d.

Ratio Definition

A ratio is a comparison of two quantities by division, expressed as x:y or x/y.

Q53. Answer: (c) 62

Given:-

(1) p + 1/p = √10

Formula used:-

If p + 1/p = k then the value of p^4 + 1/(p^4) = (k² - 2)² - 2 and here k = √10

Calculation:-

=> p^4 + 1/(p^4) = ((√10)² - 2)² - 2

=> (10 - 2)²- 2 = 62

Therefore p^4 + 1/(p^4) = 62

Therefore The required answer is 62.

Q54. Answer: (c) (102 - 46√3)/24

=> z = 6 – 2√3

=> 1/z = 1/(6 - 2√3) × (6 + 2√3)/(6 + 2√3)

=> 1/z = (6 + 2√3)/((6)² - (2√3)²)

=> 1/z = (6 + 2√3)/(36 - 12) = (6 + 2√3)/24

=> (√z - 1/(√z))² = (√z)² + (1/(√z))² - 2 × √z × 1/(√z)

=> (√z - 1/(√z))² = z + 1/z = 6 - 2√3 + (6 + 2√3)/24 - 2

=> (√z - 1/(√z))² = (144 - 48√3 + 6 + 2√3 - 48)/24

=> (√z - 1/(√z))² = (102 - 46√3)/24

Q55. Answer: (d) Infinite

The infinite points could be drawn like this -

The total number of circles passing through the two fixed points = infinite

Important Points

Starting from the two points as a diameter, we can draw a circle. As the circle is moving up it becomes a chord to the next circle with a bigger diameter. In such a way, we can draw an infinite number of circles passing through two points.

Q56. Answer: (c) 110°

Given:

angle ABC = 80° and angle ACB = 60°

I is the incenter of the triangle

Formula used:

If a ΔABC, I is the incentre of the triangle,

then angle BIC = 90 + 1/2 × angle A

Calculation:

angle ABC + angle ACB + angle BAC = 180°

=> 80° + 60° + angle BAC = 180°

=> angle BAC = 180° – 140° = 40°

Now, angle BIC = 90° + (angle BAC)/2 = 90° + (40)/2 = 90° + 20°

Therefore angle BIC = 110°

Q57. Answer: (c) 150000

Given:

The value of a machine depreciates at the rate of 20% per annum. If its present value is Rs. 96000

Time 2 years

Formula used:

Total machine × (1 - Rate/100)^t

t = time

Calculation:

According to the question,

96000 = Machine 2 years ago × (1 - 20/100)²

=> Machine 2 years ago = 96000 × 5/4 × 5/4 = 15,00,00

=> Machine 2 years ago = 15,00,00

Therefore The value of machine 2 years ago 15,00,00.

Q58. Answer: (b) 54000

Let Income of S and T are 3a and 4a respectively and the expenditure of both S and T is b

Saving of S = Income of S – Expenditure of S

=> 4000 = 3a – b ----(1)

Saving of T = Income of T – Expenditure of T

=> 22000 = 4a – b ----(2)

Solving eq.(2) – eq.(1).

=> 22000 – 4000 = 4a – 3a – b + b

=> 18000 = a

Therefore Income of S = 3a = 3 × 18000 = 54000

Q59. Answer: (a) 9200

Shortcut Trick

Investment Ratio X : Y = 171000 : 243000 = 171 : 243 = 19 : 27.

Since the time period is same for both, Profit Ratio = Investment Ratio = 19 : 27.

Given X's share = 19 units = Rs. 3,800.

=> 1 unit = 3800 ÷ 19 = Rs. 200.

Total profit = (19 + 27) units = 46 units = 46 × 200 = Rs. 9,200.

Therefore The correct answer is Rs. 9200.

Alternate Method

Given:

Investment of X = Rs. 1,71,000

Investment of Y = Rs. 2,43,000

Share of X in profit = Rs. 3,800

Formula Used:

Profit Ratio = (Capital1 × Time1) : (Capital2 × Time2)

Calculations:

=> Ratio of profits (X : Y) = 1,71,000 : 2,43,000

=> Profit Ratio = 171 : 243

=> Dividing by 9, Profit Ratio = 19 : 27

=> Let X's profit be 19k and Y's profit be 27k.

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=> 19k = 3800

=> k = 3800 ÷ 19 = 200

=> Total profit = 19k + 27k = 46k

=> Total profit = 46 × 200 = 9200

Therefore The correct answer is Rs. 9200.

Additional Information

Partnership Ratio Rule

Profit is distributed in the ratio of (Capital × Time). If time is constant, Profit1 : Profit2 = Capital1 : Capital2.

Active Partner

An Active Partner is one who takes part in the day-to-day business operations and may receive a fixed salary or commission before the profit is split.

Capital Investment

If profits and times are known, the ratio of capitals can be found as C1 : C2 = (P1 ÷ T1) : (P2 ÷ T2).

Q60. Answer: (b) 180

Given:-

(1)The average expenditure of Raman for 5 days is Rs. 130

(2) If his expenditure for the first 4 days is Rs. 100, Rs. 125, Rs. 85, and Rs. 160 respectively,

Formula used:-

(1) Average = (Sum of Observations) ÷ (Total Numbers of Observations)

Calculation:-

Total expenditure of 5 days = 130 × 5 = 650

Total expenditure of first 4 days = 100 + 125 + 85 + 160 = 470

Therefore Expenditure of 5^(th) day = 650 – 470 = 180

Therefore The required answer is 180

Q61. Answer: (c) 9159.2

P = 8000

R = 7% = 7/100

Therefore Amount after 2 years (at C.I.) = 8000 × 107/100 × 107/100 = 9159.2

Q62. Answer: (c) 10584

C.P of the cooler × (100 + Profit)/100 = S.P. of the cooler

=> 8400 × 126/100 = S.P

Therefore S.P. of the cooler = 84 × 126 = 10584

Q63. Answer: (d) 7 : 5

M.P. × 9/14 = S.P.

And, C.P. × (100 - 10)/100 = S.P.

M.P. × 9/14 = C.P. × 90/100

=> (M.P.)/(C.P.) = (90 × 14) / (9 × 100) = 7/5

Therefore M.P. : C.P. = 7 : 5

Q64. Answer: (a) √13 + 2√3

Let [25 + 4√39] = $(a + b)^2$, so square root of this value is (a + b)

So $(a + b)^2 = 25 + 4\sqrt{39} = 13 + 12 + 2 \times 2 \times \sqrt{13} \times \sqrt{3}$

=> $(a + b)^2 = (\sqrt{13})^2 + (2\sqrt{3})^2 + 2 \times \sqrt{13} \times 2\sqrt{3}$

=> $(a + b)^2 = (\sqrt{13} + 2\sqrt{3})^2$

Therefore $(a + b) = \sqrt{13} + 2\sqrt{3}$

Q65. Answer: (a) 12

Time taken by pipe P to fill the tank = 25 hours

Time taken by pipe Q to fill the tank = 20 hours

Time taken by pipe R to empty the tank = 50 hours

Total capacity of tank = Lcm of (25, 20 and 50) = 100 units
Efficiency of pipe P = 100/25 = 4 units/hour
Efficiency of pipe Q = 100/20 = 5 units/hour
Efficiency of pipe Q = – 100/50 = – 2 units/hour
Efficiency of pipe P and Q together = 5 + 4 = 9 units/hour
Efficiency of pipe P, Q and R together = 5 + 4 – 2 = 7 units/hour
Tank filled in 8 hours = 9 × 8 = 72 units
Remaining capacity = 100 – 72 = 28 units
Time taken to fill remaining 28 units = 28/7 = 4 hours
Therefore Total time taken to fill the tank = 8 + 4 = 12 h

Q66. Answer: (c) 72

Speed = Distance/Time = 700/35 × 18/5 = 72 km/hr

Q67. Answer: (a) C

As shown in the pie chart, the value of C is 20 lakhs which is least.
So answer = C

Q68. Answer: (a) 300

Total wealth = Wealth of (A + B + C + D + E + F + G)
Therefore Total wealth = 60 + 30 + 20 + 60 + 40 + 40 + 50 = 300

Q69. Answer: (a) 72

Therefore The central angle of the sector representing the share of wealth that D gets = 60/300 × 360 = 72°

Q70. Answer: (a) 8

Therefore Tax paid by C = 20 × 40/100 = 8 lakhs

Q71. Answer: (d) 30.25

Given:
Perimeter of a square = 22 cm
Concept used:
Area of a square = side²
Perimeter of a square = 4 × side
Calculations:
Let the side of the square be 'a'
Perimeter of a square = 22 cm
=> 4a = 22
=> a = 5.5 cm
Area of square = $a^2 = (5.5)^2 = 30.25$ cm²
Therefore Area of square is 30.25 cm².

Q72. Answer: (b) 616

Circumference of circle = 2πr
=> 88 = 2 × 22/7 × r
=> r = 2 × 7 = 14 cm
Therefore Area of the circle = $\pi r^2 = 22/7 \times 14 \times 14 = 616$ cm

Q73. Answer: (b) 209

Total Surface area = 2πr (h + r) = 2 × 22/7 × 7/2 × (6 + 7/2) = 2 × 11 × 19/2
Therefore Total Surface area = 11 × 19 = 209 cm²

Q74. Answer: (a) 3√3/2

angle P + angle Q + angle R = 180°
=> 60° + 90° + angle R = 180°

=> angle R = 180° – 150° = 30°

Therefore Cot R + √3/2 = Cot 30° + √3/2 = √3 + √3/2 = 3√3/2

Q75. Answer: (d) 15/17

Cot A = 8/15 = AB/BC

When C as angle is considered then BC must be base and AB is perpendicular.

Therefore Cos C = BC/AC = 15/√(AB² + BC²) = 15/√(8² + 15²) = 15/√(64 + 225) = 15/√289 = 15/17

Q76. Answer: (a) Share Price Index of Tokyo Share Market

NIKKEI is the Share Price Index of Tokyo Share Market.

• It is also known as Nikkei 225, the Nikkei index, or the Nikkei Stock Average.

• It is a stock market index for the Tokyo Stock Exchange (TSE).

• Nihon Keizai Shinbun (Nikkei Inc's flagship publication) newspaper is calculating the Nikkei Index since 1950.

Q77. Answer: (c) Tenth Five -year plan

The Tenth Five Year Plan aimed at following regional approach, instead of a sectoral approach so as to bring down regional inequalities.

• The Tenth Five Year Plan (2002-2007) was launched on December 21, 2002 by the then PM, Atal Bihari Vajpayee.

• Major objectives of this plan were:

1. Target of 8% GDP growth.
2. To increase literacy rates up to 75 %.
3. 50 million new jobs in the non-farm, non-industrial sector.
4. To reduce poverty by 5 percent.
5. To provide all the villages, an access to drinking water.
6. Cleaning of major polluted rivers by 2007.

Q78. Answer: (a) Ram Magri

Saint Ramananda is associated with Ram Magri.

• Ram Magri or Ram Bhakti was a Rama-oriented movement, which focussed on meditation of Sri Ramchandra.

• Ramananda (14th century) was the chief pioneer of Ram Bhakti.

• For the most part of his life, he lived in Varanasi.

• Born in a Brahmin family, he was a devotional poet.

• His disciples include Saint Kabir, Guru Ravidas and others.

Q79. Answer: (d) Sardar Patel

Sardar Patel is NOT associated with Champaran Satyagraha.

• During the British Raj, the Champaran Satyagraha started in 1917 in the district of Bihar.

• It was launched by Mahatma Gandhi.

• The European planters at Champaran in Bihar practised indigo cultivation through illegal methods and forced the Indian farmers to cultivate Indigo on 3/20^(th) part of their land. This was called Tinkathia system.

• This natural Indigo was used to make dye. The Germans, by then, had invented the way to make artificial dye because of which the demand for natural Indigo fell.

• Now, if the farmers wished to shift to cultivate other crops, they could do so only by paying large amount of 'compensation' or 'tawan'.

• Thus, Champaran's peasants with the help of Gandhi Ji and Rajendra Prasad organized Champaran Satyagraha and abolished Tinkathia system (1919).

Q80. Answer: (b) Earthquake

Seismography is the science of Earthquake.

• Seismography is recording and measuring the vibrations produced by the earthquake.

• The instrument which is used to measure such vibrations is called a seismometer.

Q81. Answer: (a) Marg

The small grasslands on the slopes of Lesser Himalayan range in Jammu and Kashmir are called Marg.

• The extension of Lesser Himalaya lies in the south of Great Himalayas. It is 80 to 100 km wide and its average height is between

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2700 km to 4500 km.

• Pir Panjal Range and Dhuladhar Range are several small ranges under the lesser Himalayas.

• There are small meadows in the slopes of lesser Himalayas. These are known as marg in Kashmir (Gulmarg (Meadow of Flowers), SoneMarg) etc.

Q82. Answer: (b) Manipur

Folk dance "Lai Haraoba" is popular in Manipur.

• Associated with the Meitei People (an ethnic group of Manipur), Lai Haraoba, is a festival celebrated to please Sanamahism (a traditional deity).

• It is celebrated to honor the Sylvan deities known as Umang Lai.

• The festival represents the worship of traditional deities and ancestors.

Q83. Answer: (a) India-Sri Lanka

India – Srilanka organized joint military exercise named ‘Mitra Shakti’ in October 2017.

• It was held in Aundh Military Station in Pune, Maharashtra.

• The series of Mitra Shakti exercise between Sri Lanka and India had started in 2012 as a reaction to China’s efforts to increase its impact in the Indian Ocean region and South Asia.

• The goal of this exercise is to form a strong military-to-military bond between the two nation’s armies.

Q84. Answer: (b) Demi-Leigh Nel-Peters

The correct answer is Demi-Leigh Nel-Peters.

Key Points

• Demi-Leigh Nel-Peters, a model and beauty queen from South Africa, won the title of Miss Universe in 2017.

• She received the 2017 Miss South Africa title.

• She is South Africa's second Miss Universe winner after Margaret Gardiner, who won the title in 1978.

Important Points

• R'Bonney Gabriel from Texas, USA was crowned Miss Universe 2022.

Additional Information

• Shraddha Shashidhar:

• Indian beauty pageant champion Shraddha Shashidhar won the title of Miss Diva Universe in 2017.

• Iris Mittenaere:

• Miss Universe 2016 is a French model, television host, and previous winner of beauty pageants named Iris Mittenaere.

• Laura Gonzalez:

• Actress, model, and beauty pageant champion Laura González Ospina hails from Colombia.

• She was the 2017 Miss Colombia.

Q85. Answer: (c) Burgher

Burgher is called the descendants of Dutch and Portuguese colonies in Sri Lanka.

• A small Eurasian ethnic group, the Burghers have descended from Dutch, Portuguese

Q86. Answer: (b) I - 2, II - 1, III - 3

Column A	Column B
Electron	Thomson
Proton	Goldstein
Neutron	James Chadwick

• The smallest particle of an atom which carries a negative charge is called as an electron.

• Protons are the subatomic particles found in the nucleus of atom carrying a positive electrical charge.

• Neutrons are the particles in an atom carrying the neutral charge.

Q87. Answer: (c) Only II and III

The correct answer is Only II and III.

Key Points

• Covalent Bond:

• A type of chemical bond wherein two or more atoms share one or more electron pairs.
• The outer shell of each has crossed over the other,
• Each atom shares its valence electron with the other atom.
• It can be said as an electrostatic force of attraction between two or more atoms or molecules.
• There are two types of covalent bonds - sigma and pi bonds.
• Sigma is the strongest covalent bond while pi-bond is the weakest covalent bond.
• Sigma and Pi bonds:-
• The overlapping of atomic orbitals distinguishes the sigma and pi bonds from each other.
• The overlapping of atomic orbitals forms covalent bonds.
• The head-to-head overlapping of atomic orbitals forms sigma bonds, whereas the lateral overlap of two atomic orbitals forms pi bonds.

Additional Information

• Covalently bonded compounds do not have free electrons, so they do not conduct electric current.
• Covalently bonded molecules have low melting and boiling points because intermolecular forces are weak and little amount of energy is required to break the forces.
• If the compounds have high melting and boiling point then they have very strong or strong intermolecular forces.
• If compounds have medium melting and boiling point then they have medium intermolecular forces.
• The intermolecular forces between water molecules are stronger than those between oxygen molecules.
• Covalent bonds are formed by the mutual sharing of electrons.
• Hence the covalently bonded molecules have strong bonds within the molecule.

Q88. Answer: (b) President of India

The correct answer is option 2 i.e President of India.

• According to Article 108 of the Indian constitution, the joint sitting of the Parliament is called by the President.
• It is presided over by the Speaker or, in his absence, by the Deputy Speaker of the Lok Sabha or in his absence, the Deputy-Chairman of the Rajya Sabha.
• Joint session of Parliament can be summoned in the following situations -
• If after a Bill has been passed by one House and submitted to the other House and the Bill is rejected by the other House.
• The Houses have finally disagreed as to the amendments to be made in the Bill.
• More than six months elapse from the date of the reception of the Bill by the other House without the Bill being passed by it.
• The President may, unless the Bill has elapsed by reason of a dissolution of the House of the People, notify to the Houses by message if they are sitting or by public notification if they are not sitting, his intention to summon them to meet in a joint sitting for the purpose of deliberating and voting on the Bill.

Q89. Answer: (b) Ordinary Bill

Ordinary Bill can be introduced without the prior recommendation of the President of India.

• Features of an Ordinary bill:
• It can be introduced in either house of Parliament.
• It can be introduced by both Minister and a private member, unlike Money bills which can only be introduced in the Lok Sabha by a Minister.
• Unlike other bills, it can be accepted, rejected or returned by the President for reconsideration.

Q90. Answer: (b) Cytoplasm

• Glucose breaks down into pyruvate in Cytoplasm.
• The process of conversion of glucose into pyruvate releasing ATP (Adenosine Triphosphate) is called Glycolysis.
• When the pyruvate enters the mitochondria, it is converted into carbon dioxide and water.

Q91. Answer: (c) New Delhi

In December 2017, the Prime Minister of India inaugurated the B. R. Ambedkar International Centre in New Delhi.

• It is an important center for research on economic and social issues.
• It will promote the thoughts and teachings of B.R Ambedkar.
• Popularly known as Babasaheb Bhimrao Ramji Ambedkar (1891 - 1956) was an Indian economist, jurist, politician and social reformer.
• He campaigned against the discrimination towards Dalits (the Untouchables).

Q92. Answer: (d) Rudolf Virchow

The correct answer is Rudolf Virchow.

Rudolf Virchow expanded the cell theory and suggested that all the cells arise from pre-existing cells.

• The cell theory, given by Rudolf Virchow in 1855, states that:

1. All living organisms are made up of cells.
2. The cell is the basic structural and functional unit of life.
3. All cells arise from pre-existing cells.

Q93. Answer: (b) Luciferase

Luciferase enzyme has been used by scientists of Massachusetts Institute of Technology (in 2017) to induce plants to give off a dim light.

• The objective of this experiment was to make the plant work as a desk lamp which is not powered by electricity.

Q94. Answer: (a) Rs. 9500 crore

On 29 September 2017, SEBI allowed Sovereign wealth fund and other long term Foreign Portfolio Investors (FPIs) to buy corporate debt up to Rs 9500 crore in infrastructure sector.

• SEBI stands for - The Securities and Exchange Board of India.

• The move was executed after RBI's decision to keep out foreign investment in popularly known masala bonds (the rupee dominated bonds) from the Combined Corporate Debt Limit (CCDL).

Q95. Answer: (a) Rs. 30,000 crore

On 2 January 2018, Parliament Passed NABARD (Amendment) Bill, 2017. The Bill seeks to increase the capital of NABARD from Rs 5,000 crore to Rs 30,000 crore.

• NABARD stands for - National Bank for Agriculture and Rural Development.

• The responsibility to regulate facilities like credit for industrial and agricultural development in the rural areas.

• To amend the National Bank for Agriculture and Rural Development Act, 1981, is the aim of this bill.

Q96. Answer: (c) 2

The acceleration (in m/s2) produced in a body of mass 10 kg when a force of 20 N is applied on it is 2 m/s^2.

• The formula for force: force = mass × acceleration.

• Therefore acceleration = force ÷ mass.

• Here acceleration = 20 ÷ 10 = 2 m/s^2.

Q97. Answer: (a) Force

The product of the mass of a body and the acceleration produced in it equals the Force acting on it.

CONCEPT:

• Force: It is those physical quantities that are defined as the push or pull of an object.

• Its unit is Newton.

Equation of Force:

=> F = ma

Where m is the mass and a is the acceleration of the body

EXPLANATION:

• Force is the vector quantity which is defined as the product of mass and acceleration.

=> F = ma

Additional Information

• Vector quantity: It is that physical quantity that contains both magnitude and direction.

• Force, Velocity, Displacement, acceleration these all are vector quantity that has both magnitude and direction.

Q98. Answer: (d) Earthing

The process of transferring of charge from a charged object to the earth is called Earthing.

• Importance of Earthing:

1. It protects human lives by providing safety to electrical appliances from leakage of current.
2. It protects buildings form lighting.
3. It removes the risk of fire in electrical systems.

Explanation:

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There are two types of charges found in nature -

1. Positive charge

2. Negative charge

Properties of charges:

• Like charges (same charges) repel each other.

• Unlike charges (different charges) attract each other.

• When two objects are rubbed against each other, they develop charges.

• Earthing: The process of transfer of charge from a charged object to the Earth is known as Earthing.

• Lightning is caused because of the build-up of electrostatic charges in the clouds.

• Lightning Conductor: It is a device used to protect buildings from the effect of lightning.

• A metallic rod, taller than the building, is installed in the walls of the building during its construction.

• One end of the rod is kept out in the air and the other is buried deep in the ground.

• The rod provides an easy route for the transfer of electric charge to the ground.

• Copper is used because it is a good conductor of electricity.

• The lightning conductor is sharp-pointed because this will ensure a high electric field and hence the quick flow of electric charges to the ground.

Q99. Answer: (a) Both A and C

Both A and C:

Lewis Hamilton won the Formula One 2017 Chinese Grand Prix and Sebastian Vettel won the Formula One 2017 Brazilian Grand Prix.

• A British racing driver, Lewis Hamilton, races in Formula One for Mercedes AMG Petronas.

• A German racing driver, Sebastian Vettel, races in Formula One for Scuderia Ferrari.

Q100. Answer: (a) Computers

The overall capabilities of CCT are understood by all because Computers are information processing tools.

• CCT stands for - Computers and Communication Technology.

• The socio-economic divides in our society are balanced by CCT as it gives an access to those who were deprived of relevant information.

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