SSC CHSL Previous Paper 59 (Held On: 28 March 2018 Shift 2) (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'.

Agriculture was the key development, whereby farming (1)/ of domesticated species creation food (2)/ surpluses nurturing the development of civilisation. (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'.

Romanticism was an artistic, literary, musical, cultural, (1)/ and intellectual movement that originated in (2)/ Europe to the end of the 18th century. (3)/ No error (4)

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

Q3. In the following question, the sentence is given with a 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.

At the party, none of the people could _____.

(a) ate
(b) eaten
(c) is eating
(d) eat

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.

Narayan is _____ at chanting every verse in the book.

(a) Adapt
(b) Adopt
(c) Adept
(d) Attain

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

Arcane

(a) Familiar
(b) Hidden

(c) Known
(d) Obvious

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

Ascertain

(a) Discover
(b) Neglect
(c) Misjudge
(d) Overcome

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

Quaint

(a) Different
(b) Common
(c) Old-fashioned
(d) Erratic

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

Captivate

(a) Disillusion
(b) Attract
(c) Grip
(d) Delight

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

Some modern anthropologists hold

P : that biological evolution has shaped

Q : not only human morphology

R : but also human behaviour

(a) RPQ
(b) PQR
(c) RQP
(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.

The thief saw her unlocking the door.

(a) She was seen unlocking the door by the thief.
(b) She was saw unlocking the door by the thief.
(c) She is saw unlocking the door by the thief.
(d) She was unlocking the door as seen by the thief.

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.

Kabir said, “I saw her at the concert.”

(a) Kabir had seen her at the concert.
(b) Kabir say he had seen her at the concert.
(c) He has seen her at the concert, said Kabir.
(d) Kabir said that he had seen her at the concert.

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Q12. Determine the correct spelling.

(a) Controvershial
(b) Controvursal
(c) Controversial
(d) Countronrersial

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.

Literature is a powerful tool that helps writers plumb the _____ of the human psyche and pluck out the hidden dependencies and scars of a particular era. Although fiction allows writers the latitude _____ create and imagine lives, most authors of _____ novels tend to focus on capturing the emotional zeitgeist of the times.

_____ an emphasis on the large movements of history, they seek to understand the private moments of sadness and explore the sounds and flavours _____ a forgotten era.

Q13. writers plumb the _____ of the human psyche

(a) deep
(b) down
(c) under
(d) depths

Q14. Writers the latitude _____ create and imagine lives,

(a) to
(b) so
(c) as
(d) at

Q15. most authors of _____ novels tend to focus

(a) politics
(b) politically
(c) political
(d) politician

Q16. zeitgeist of the times. _____ an emphasis on

(a) Thorough
(b) Through
(c) Though
(d) Thought

Q17. sounds and flavours _____ a forgotten era.

(a) form
(b) for
(c) off
(d) of

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

When pigs fly

(a) Day dreaming about fanciful things.
(b) Talk nonsense when intoxicated.
(c) Another way of saying that every dog has his day.
(d) A way of saying that something will never happen.

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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.

Cost an arm and a leg

(a) It takes two very different people to make a workable pair.
(b) Something which you can easily afford.
(c) Buy something which is very critical to you.
(d) Very expensive.

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

An expert judge in matters of taste

(a) Proselyte
(b) Gremlin
(c) Neophyte
(d) Connoisseur

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

Spread over a wide area or between a large number of people

(a) Diffuse
(b) Contemplate
(c) Scrutinize
(d) Peruse

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".

The butterfly (flutter) its wings, trying desperately to disentangle itself from the web of potential death.

(a) fluttering
(b) will flutter
(c) was fluttering
(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".

Even a simple thing like (wash) the hands seems killing.

(a) washed
(b) washes
(c) washing
(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.

That was a huge

A-step to take, especially in this

B-generation where WhatsApp rules

C-over so many humans

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

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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) pretansions
(b) pretensions
(c) pritentions
(d) pretantions

GENERAL INTELLIGENCE

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

July: 31 : : ? : ?

(a) April: 31
(b) June: 30
(c) September: 31
(d) January: 30

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

109 : 116 :: 196 : ?

(a) 205
(b) 203
(c) 204
(d) 196

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

LQJ : EJC :: RBU : ?

(a) KVM
(b) JVN
(c) KUN
(d) JUM

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

(a) Hospital - Patient
(b) Garage - Car
(c) Animals - Zoo
(d) Dispensary - Medicine

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) 5 - 15
(b) 7 - 21
(c) 9 - 29
(d) 11 - 33

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

(a) HKN
(b) RUX
(c) GJN
(d) ADG

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

1. Stylish
2. Subject
3. Sudden

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4. Subtle

5. Suburban

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

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

20, 23, 43, 66, 109, ?

(a) 180
(b) 172
(c) 175
(d) 158

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

ARM, IZU, QHC, YPK, ?

(a) GYT
(b) GXS
(c) FWR
(d) FRS

Q35. Rohit remembers that his birthday is before 12th December and after 6th December. His wife remembers that Rohit's birthday is after 7th December. His son remembers that Rohit's birthday is before 10th December. On which date of December is Rohit's birthday?

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

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

Obsession

(a) Son
(b) Boss
(c) Nose
(d) Best

Q37. In a certain code language, "FRAME" is written as "HTCOG". How is "SOCKS" written in that code language?

(a) UQEMU
(b) UMNOU
(c) UNMPU
(d) UFQRU

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

10 × 4 ÷ 5 - 6 + 10 = ?

(a) 22
(b) 36
(c) 47
(d) 9

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

25 ÷ 2 × 10 - 4 + 8 = 9

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

Q40. If 9*8 = 144, 7*7 = 98 and 7*8 = 112, then the value of 5*1 = ?

(a) 10
(b) 12
(c) 24
(d) 32

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

BBBBBAA, BBBBAAA, BBBAAAA, BBAAAAA, BAAAAAA, _____.

(a) BBBBBBA
(b) BBBBBAA
(c) BBBBAAA
(d) AAAAAAA

Q42. Two cargo ships A and B start from the same port. Ship A sails 35 miles West, then it turns right and sails 75 miles. In the meanwhile Ship B sails 105 miles North, then it turns left and sails 35 miles, then it turns North and sails 45 miles. Where is ship A with respect to ship B?

(a) 225 miles South
(b) 75 miles North
(c) 75 miles South
(d) 225 miles North

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 windows are openings.

Statement II: All doors are windows.

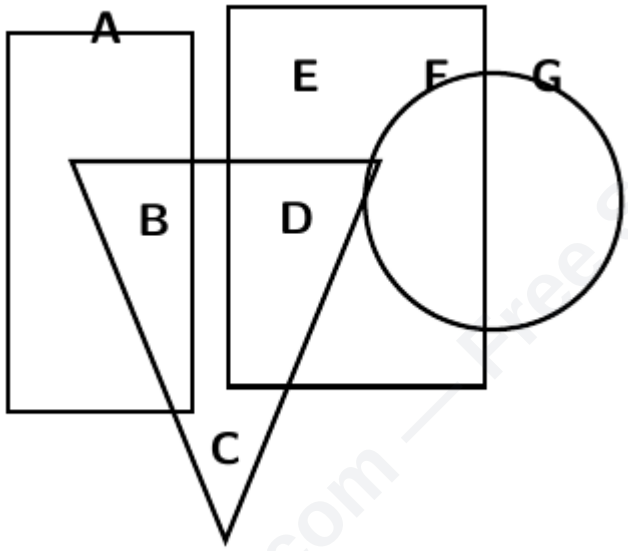
Conclusion I: Some openings are doors.

Conclusion II: All doors are openings.

(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 Electricians, circle represents Cartoonists, triangle represents Riders and square represents Indians. Which set of letters represents Indians who are either Cartoonists or Riders?

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(a) BCDFG
(b) EDF
(c) E
(d) DF

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

CIQ, HNV, MSA, RXF, ?

(a) WDJ
(b) XCJ
(c) XDK
(d) WCK

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

113, 128, 143, 158, ?, 188

(a) 175
(b) 174
(c) 173
(d) 182

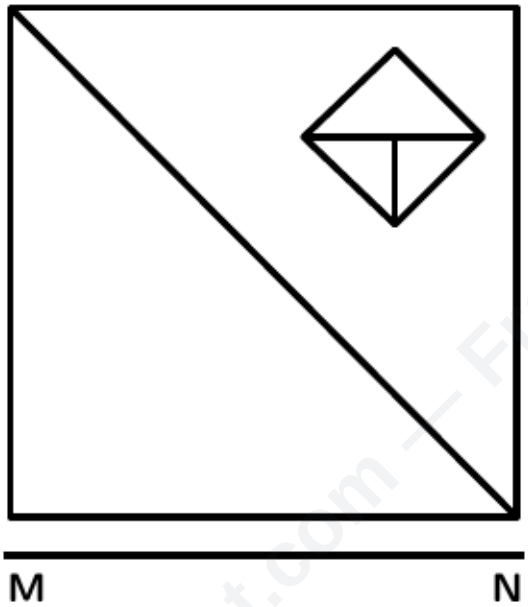
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation.

Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

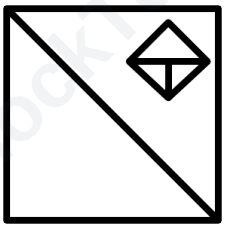
(a) (6, 29, 17)
(b) (9, 44, 28)
(c) (18, 89, 53)
(d) (13, 64, 38)

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

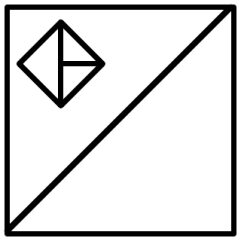
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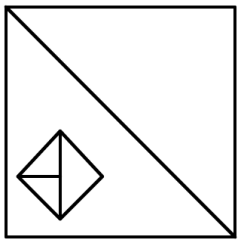
(a)



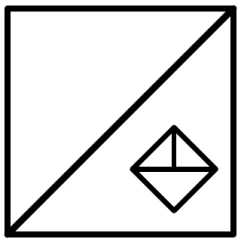
(b)



(c)

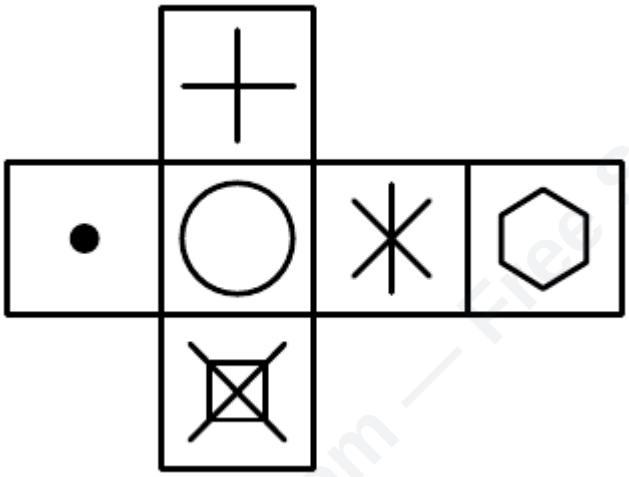


(d)

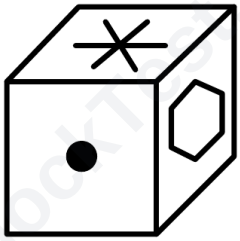


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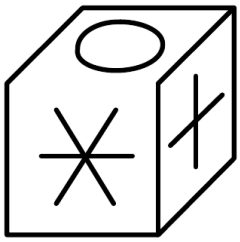
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



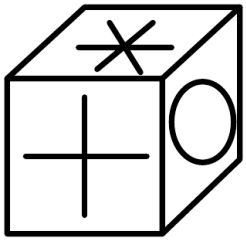
(a)



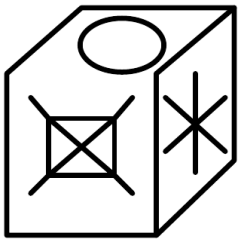
(b)



(c)



(d)



Q50. A word is represented by only one 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 numbered from 0 to 4 and that the 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 ‘M’ can be represented by 42, 34 etc and ‘V’ can be represented by 85,86 etc. Similarly, you have to identify the set for the word ‘SENT’.

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

(a) 42,75,40,76
(b) 97,13,65,98
(c) 44,75,34,76
(d) 34,89,44,97

QUANTITATIVE APTITUDE

Q51. 2/5 of a number exceeds 2/7 of the same number by 40. Find the number.
(a) 250
(b) 280
(c) 320
(d) 350

Q52. 2/3 of 3/4 of 4/9 of 1/60 of 120 of a number will be what percentage of that number?
(a) 44.44%
(b) 33.33%
(c) 22.22%
(d) 11.11%

Q53. Find the value of 'x' (such that x > 0) which will satisfy the equation 5^x + 5^(1-x) – 6 = 0
(a) 3
(b) 0
(c) 1
(d) 2

Q54. A square has a perimeter equal to 24 units. If the length of each side of the square is reduced by 2 units, then find the area (in sq units) of the square.
(a) 4
(b) 9
(c) 16
(d) 25

Q55. If the two sides of obtuse angled triangle are 8 cm and 15 cm and the third side is x then find the range of x if 15 is the longest side.
(a) 7 < x < 23
(b) 7 < x < √161
(c) 17 < x < 21
(d) Cannot be determined

Q56. If the two sides of an acute angled triangle is 8 cm and 15 cm and the length of the third side is x, then
(a) 13 < x < 17
(b) 7 < x < 1
(c) √161 < x < 17

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(d) 7 < x < 23

Q57. If two numbers are 40% and 70% less than the third number respectively, then second number is how much percent less than the first number?

(a) 100
(b) 50
(c) 42.85
(d) 75

Q58. The sum of two numbers is 248 and their difference is 8. What is the ratio of the two numbers?

(a) 15 : 16
(b) 7 : 8
(c) 6 : 7
(d) 13 : 28

Q59. P and Q started a business by investing Rs. 156000 and Rs. 117000 respectively and their time period of investment is same. If P's share in the profit earned by them is Rs. 12000, then what is the total profit (in Rs) earned by both of them together?

(a) 25000
(b) 17000
(c) 21000
(d) 18000

Q60. The average of 26 numbers is 37. One number is added and the new average becomes 41. What is that new number?

(a) 140
(b) 145
(c) 146
(d) 147

Q61. The simple interest on a sum of money is 9/49 of the principal. The number of years are equal to the rate of interest per annum. What is the rate (in percentage) of interest per annum?

(a) 36/7
(b) 27/7
(c) 15/7
(d) 30/7

Q62. If the cost price of 20 articles is 5 times of the selling price of 4 articles, then what is the profit or loss percentage?

(a) No profit/loss
(b) 25% loss
(c) 20% profit
(d) 25% profit

Q63. An item is sold at two successive discounts of 10% and 10%. The selling price of article after the two discount is Rs. 4050. If it is sold only at one discount of 20%, then what will be the selling price (in Rs) of the article?

(a) 4000
(b) 5000
(c) 4500
(d) 5500

Q64. Which of the following statement(s) is/are TRUE?

I. √24 < cbrt70

II. √12 < ?20

(a) Only I
(b) Only II

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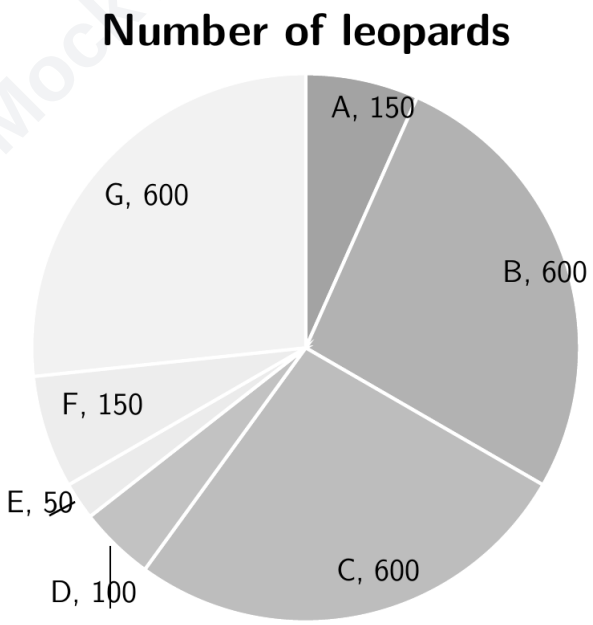
(c) Neither I nor II
(d) Both I and II

Q65. X and Y can do a piece of work in 10 days, Y and Z in 12 days and Z and X in 15 days. In how many days can Z alone do the work?
(a) 40
(b) 24
(c) 18
(d) 36

Q66. The distance between places X and Y is 720 km. An express train leaves place X at 5:00 p.m. and runs at a speed of 45 km/hr. The train stops on the way for 45 minutes. At what time (in a.m.) will the train reach at place Y?
(a) 1 : 45
(b) 9 : 45
(c) 7 : 15
(d) 12 : 15

Directions

Directions: The pie chart shows the number of leopards in all the leopard wild life sanctuaries in the country. Study the diagram and answer the following questions.



Q67. The least number of leopards are in which sanctuary?
(a) F
(b) G
(c) B
(d) E

Q68. What is the total number of leopards in these sanctuaries?
(a) 2250
(b) 2000
(c) 1750
(d) 1600

Q69. The measure of the central angle of the sector representing the number of leopards in Sanctuary B is _____ degrees.
(a) 92
(b) 88

(c) 84
(d) 96

Q70. If the average area occupied by each leopard in these sanctuaries is 70 sq km, then what is the total area (in 1000 sq km) of these sanctuaries?
(a) 157.5
(b) 230
(c) 115.5
(d) 205

Q71. If the lengths of the two parallel sides of a trapezium are 5 cm and 7 cm and its area is 24 cm². Find the distance between its parallel sides (in cm).
(a) 2
(b) 4
(c) 8
(d) 6

Q72. If the measure of the interior angle of a regular polygon is 60° greater than the measure of its exterior angle then how many sides does it have?
(a) 8
(b) 9
(c) 10
(d) 6

Q73. Find the total surface area (in cm²) of a right circular cone of diameter 24 cm and slant height 16 cm.
(a) 1714
(b) 1161
(c) 1056
(d) 1477

Q74. What is the value of (tan 45° - 1/√2)?
(a) -√3/2
(b) (2√2 - 1)/√2
(c) (2√2 - √3)/2
(d) (√2 - 1)/√2

Q75. ΔUVW is right angled at V. If sinU = 4/5, then what is the value of cosecW?
(a) 3/4
(b) 4/5
(c) 5/3
(d) 4/3

GENERAL AWARENESS

Q76. In Microsoft Word, _____ view shows formatting such as line spacing, font, point size, and italics.
(a) Web Layout
(b) Normal Layout
(c) Reading Layout
(d) Print Layout

Q77. Which of the statements given below is correct?
A) Henri Kontinen and John Peers won the Tennis 2017 ATP World Tour Finals Men's Doubles.
B) In 2017, Sebastian Vettel raced in MotoGP for Honda.
C) Daniel Ricciardo won the Formula One 2017 Chinese Grand Prix.
(a) Only A

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(b) Only C
(c) A and B
(d) B and C

Q78. Where warm air rises up, the air _____.
(a) pressure at that place is lowered
(b) pressure at that place is raised
(c) humidity at that place is lowered
(d) humidity at that place is raised

Q79. When an object travels equal distances in equal intervals of time, it moves with _____ speed.
(a) linear
(b) translational
(c) uniform
(d) non-uniform

Q80. Due to an acceleration of 2 m/s^2, the velocity of a body increases from 20 m/s to 30 m/s in a certain period. Find the displacement (in m) of the body in that period.
(a) 650
(b) 125
(c) 250
(d) 325

Q81. On 20 July 2017, Lok Sabha passed IIIT-PPP Bill, 2017. The Bill seeks to allow how many IITs established on a PPP model to grant degrees and get statutory status?
(a) 7
(b) 15
(c) 10
(d) 18

Q82. In August 2017, Essar Oil Limited was acquired by Rosneft PJSC for nearly how much amount?
(a) $ 13 billion
(b) $ 20 billion
(c) $ 25 billion
(d) $ 5 billion

Q83. What is the name of world's first typhoid vaccine that has received pre-qualification from the World Health Organisation?
(a) Typhim Vi
(b) Typherix
(c) Typbar Typhoid Conjugate Vaccine
(d) Vivotif

Q84. Who launched 'PENCIL' portal in September 2017 for the prevention of child labour?
(a) Arun Jaitley
(b) Rajnath Singh
(c) Nirmala Sitharaman
(d) Jagat Prakash Nadda

Q85. The olfactory receptors in human beings detect _____.
(a) taste
(b) smell
(c) touch
(d) hear

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Q86. What is the process by which autotrophs take in substances from the outside and convert them into stored form of energy?

(a) Respiration
(b) Photosynthesis
(c) Ingestion
(d) Transpiration

Q87. How many All India Services are there in India?

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

Q88. Whose salary is charged on the consolidated fund of India?

I. Chairman of UPSC
II. President of India
III. Judges of Supreme Court

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

Q89. $Fe_2O_3 + 2Al \rightarrow Al_2O_3 + 2Fe$

The above reaction is an example of _____.

(a) Combination reaction
(b) Double displacement reaction
(c) Decomposition reaction
(d) Displacement reaction

Q90. What is the chemical symbol of cobalt?

(a) Cl
(b) Co
(c) Ca
(d) K

Q91. Who is the newly elected Prime Minister of Nepal?

(a) K.P. Sharma Oli
(b) Jhala Nath Khanal
(c) Sushil Koirala
(d) KhilRaj Regmi

Q92. Who authored the book titled ‘Dukkham Sukkham’ which won the Vyas Samman 2017?

(a) Krishna Sobti
(b) Mamta Kalia
(c) Mrinal Pande
(d) Nirmala Jain

Q93. In December 2017, which country announced lifting of its ban on movie theatres imposed more than 35 years ago?

(a) Iran
(b) Syria
(c) Saudi Arabia
(d) Iraq

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Q94. Which of the following is NOT a classical dance?

(a) Kathak
(b) Odissi
(c) Giddha
(d) Manipuri

Q95. Where is New Moore Island located?

(a) In Arabian Sea
(b) In Gulf of Mannar
(c) In Bay of Bengal
(d) In Andaman Sea

Q96. Who is the exponent of Continental Drift Theory?

(a) Pratt
(b) Wegener
(c) Holmes
(d) Gregory

Q97. At which session of Congress was the first foreign leader to be chaired?

(a) Allahabad
(b) Guwahati
(c) Calicut
(d) Belgaum

Q98. Which of the following dynasties was not located in South India?

(a) Hoysala
(b) Pandya
(c) Kadamb
(d) Kalachuri

Q99. Paper currency first started in India in the year_____.

(a) 1680
(b) 1861
(c) 1542
(d) 1601

Q100. Investment in public work is known as _____.

(a) expenditure
(b) current expenditure
(c) capital expenditure
(d) expenditure and current expenditure both

ANSWER KEY

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

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81	b	82	a	83	c	84	b	85	b	86	b	87	c	88	d	89	d	90	b
91	a	92	b	93	c	94	c	95	c	96	b	97	a	98	d	99	b	100	c

SOLUTIONS

Q1. Answer: (b) 2

The correct answer is '2' i.e. error lies in this part of the sentence.

Key Points

In part 2 of the sentence, the usage of 'creation' is incorrect Instead, use 'created'

• Let's understand the sentence→ The subject of the sentence is 'Agriculture' and 'was' is the linking with the linking verb we usually write a subject complement hence 'the key development' is the subject complement.

• 'Whereby' is conjunction hence we know that the conjunction makes a clause and the clause always have its own subject in the given sentence the subject is 'Farming' which is singular in number.

• So, we need a verb that should be in the past tense to follow the parallelism. 'Creation' is a noun hence we don't need a noun here.

So the correct sentence is → Agriculture was the key development, whereby farming of domesticated species created food surpluses nurturing the development of civilisation.

Q2. Answer: (c) 3

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

Key Points

In part 3 of the sentence, the usage of 'to' is incorrect Instead, use 'in'

• According to grammar, 'in the end' means 'finally and eventually' it represents 'time' and gives the reply of 'when'

• Let's see an example-

• In the end, they decided not to go. (When they decided? the reply is 'in the end')

• Hence, 'in the end of the 18th century' is the reply of 'Romanticism originated when?'

So the correct sentence is→ Romanticism was an artistic, literary, musical, cultural, and intellectual movement that originated in Europe in the end of the 18th Century.

Q3. Answer: (d) eat

The correct answer is 'Eat'

Key Points

• According to grammar, 'could' is a modal auxiliary verb and with this verb, we always use the first form of the verb. Hence, in the given options the first form of the verb is 'eat'

• Let's see an example-

• I could see that something was terribly wrong.

So the correct sentence is→ At the party, none of the people could eat.

Q4. Answer: (c) Adept

The correct answer is 'Adept'

Key Points

The sentence aims to say that Narayan can chant every verse very well.

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

• Adept→ very skilled; expert

• Adapt→ change; adjust.

• Adopt→ take up; acquire.

• Attain→ achieve; accomplish.

• So according to the meanings of the given words the correct answer is 'Adept'

Q5. Answer: (b) Hidden

The correct answer is 'Hidden'

Key Points

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

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• Arcane→ Understood by a few.
• Familiar→ Well known.
• Hidden→ Put or keep out of sight.
• Known→ Recognized familiar, or within the scope of knowledge.
• Obvious→ Easily perceived or understood clearly.
• So according to the meanings of the given words, the correct answer is 'Hidden'

Q6. Answer: (a) Discover

The correct answer is 'Ascertain'

Key Points

• Let's see the meanings of the given words-
• Ascertain→ Find out for certain.
• Discover→ Find unexpectedly or during a search.
• Neglect→ Fail to give proper care or attention to.
• Misjudge→ Form an incorrect opinion.
• Overcome→ Succeed in dealing with.
• So according to the meanings of the given words, the correct answer is 'Discover'

Q7. Answer: (b) Common

The correct answer is 'Common'

Key Points

• Let's see the meanings of the given words-
• Different→ Not the same as another or each other.
• Common→ Occurring found or done often
• Old-fashioned→ Favoring styles that are no longer current.
• Erratic→ Not even or regular in the pattern.
• Quaint→ Attractively unusual or old-fashioned.
• So according to the meanings of the given words the correct answer is 'Common'

Q8. Answer: (a) Disillusion

The correct answer is 'Disillusion'

Key Points

• Let's see the meanings of the given words-
• Captivate →attract and hold the interest and attention of; charm.
• Disillusion→ (cause (someone) to realize that a belief they hold is false; come out of attraction) is an antonym.
• So the correct answer is 'Option 1'

Q9. Answer: (b) PQR

The correct answer is 'PQR'.

Key Points

• First comes P as begins with 'that', indicating that it is a subordinating clause and continues the opening sentence.
• 'Not only.. but also' is a correlative conjunction.
• It is used for stressing that there is something more to be added.
• Example - Mary not only studies hard but she also works well.
• Therefore, according to the above points, Q must come before R.
• Hence, Only Option 2, i.e. PQR is a possible answer.

The correct sentence - Some modern anthropologists hold that biological evolution has shaped not only human morphology but also human behaviour.

Q10. Answer: (a) She was seen unlocking the door by the thief.

The correct answer is 'She was seen unlocking the door by the thief.'

Key Points

• The given sentence is in the Active voice. To know whether the sentence is in the active voice or in the passive voice you just see the verb if it is written in the form of 'Be + V3' then, the sentence is in the passive voice.

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• The given sentence is in the active voice hence, the subject of the sentence becomes the object and the object of the sentence becomes the subject in the passive.
• Also, remember that the tense never changes in the passive voice.
• In the given sentence, an object is an indirect object which is 'her' 'unlocking the door' is the object complement.
• So after keeping this in mind the correct passive voice is→ She was seen unlocking the door by the thief.

Q11. Answer: (d) Kabir said that he had seen her at the concert.

The correct answer is 'Kabir said that he had seen her at the concert. '

Key Points

• The given sentence is in direct speech.
• While changing the direct speech into indirect speech first check the tense of the sentence. In the given sentence, the tense is 'the past simple'
• We know that the rule is 'the past simple' change into 'the past perfect tense.'
• Also, the usage of pronouns should be according to the subject if in the reported speech the pronoun is used.
• In the given sentence, the pronoun will be used according to the subject which is 'Kabir'
• So the correct Indirect speech is→ Kabir said that he had seen her at the concert.

Q12. Answer: (c) Controversial

The correct spelling is Controversial

Key Points

• Controversial means something which is widely disagreed upon by various people.

Example: Immigration is a controversial issue in many countries.

• Synonyms: disputed, contended, contentious, at issue, debatable, polemic

Q13. Answer: (d) depths

The correct answer is 'Depths'

Key Points

• According to grammar, in the given blank we need a noun because before the blank there is a definite article.
• If we look at the options we can see that-
• Deep is an adjective.
• Down is an adverb and preposition
• Under is an adverb and preposition
• So we left with 'Depths' and it is the correct answer.
• Also, Plumb means Measure. What can you measure? It is clear that a noun will be used.

Q14. Answer: (a) to

The correct answer is 'to'

Key Points

• According to grammar, we need a preposition in the given blank.
• Let's see the parts of speech-
• So is an adverb
• as is an adverb
• at is a preposition
• We cannot use 'at' in the given blank because after the blank the verb is used hence we know that after the preposition we always use the noun/pronoun/gerund to make a prepositional object.
• So the correct answer is 'to'

Q15. Answer: (c) political

The correct answer is 'Political'

Key Points

• According to grammar, in the given blank we need an adjective to qualify a noun which is written after the blank.
• Let's see the options-
• Politics is a noun
• Politically is an adverb.

• Political is an adjective
• Politician is a noun.
• So the correct answer is 'Political' the noun it is going to qualify is 'novels'
• So the correct sentence will be→ most authors of political novels tend to focus

Q16. Answer: (b) Through

The correct answer is 'through'

Key Points

• The emphasis of large movements is being stated as a medium to understand the medium hence, 'Through' is the correct answer.
• So the correct sentence will be- Through an emphasis on the large movements of history.

Additional Information

Zeitgeist → the defining spirit or mood of a particular period of history as shown by the ideas and beliefs of the time.

Q17. Answer: (d) of

The correct answer is 'of'

Key Points

• According to grammar, the preposition 'of' is used to show the relationship between the two entities.
• Let's see an example-
• We had almost reached the end of the street.

So the correct sentence would be- they seek to understand the private moments of sadness and explore the sounds and flavours of a forgotten era.

Q18. Answer: (d) A way of saying that something will never happen.

The correct answer is 'A way of saying that something will never happen.'

Key Points

• The meaning of the given idiom 'When pigs fly' is 'used to say that one thinks that something will never happen'
• Let's see an example-
• I guess I can expect you to clean your room when pigs fly?

Q19. Answer: (d) Very expensive.

The correct answer is 'Very expensive'

Key Points

• The meaning of the given idiom 'Cost an arm and a leg' is 'Very expensive'
• Let's see an example-
• But not all of his investments have cost an arm and a leg.

Q20. Answer: (d) Connoisseur

The correct answer is 'Connoisseur'

Key Points

• Let's see the meanings of the given words-
• Connoisseur →(an expert judge in the matters of taste)\
• Proselyte*→* a person who has converted from one opinion, religion, or party to another.
• Neophyte*→* a person who is new to a subject or activity; beginner.
• Gremlin*→* an imaginary mischievous sprite (elf or fairy) regarded as responsible for an unexplained mechanical or electronic problem or fault.
• So according to the meanings of the words, the correct answer is 'connoisseur'

Q21. Answer: (a) Diffuse

The correct answer is 'Diffuse'

Key Points

• Let's see the meanings of the given words-
• Diffuse →spread out.
• Contemplate→ thinking deeply and at length.
• Scrutinize→ examine or inspect closely and thoroughly.

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• Peruse→ read (something), typically in a thorough or careful way.

• So according to the meanings of the given words the correct answer is 'Diffuse'

Q22. Answer: (c) was fluttering

The correct answer is 'was fluttering'

Key Points

• The given phrase is to be replaced with 'was fluttering'

• According to grammar, the past continuous tense tells us that the action was temporary in the past or was changing or developing. Also, the past continuous tense describes an action in progress at a point of time in the past, i.e. the action began before this point in time and continued after it.

• Let's see an example-

• His symptoms were becoming more pronounced these days. (Changing action.)

So the correct sentence is→ The butterfly was fluttering its wings, trying desperately to disentangle itself from the web of potential death.

Q23. Answer: (c) washing

The correct answer is 'washing'

Key Points

• The given phrase is to be replaced with 'washing'

• According to grammar, 'like' is a preposition and we know that after the preposition we need a noun/pronoun/gerund hence in the given option there is a gerund i.e. 'washing' which is going to be our answer.

• The subject of the sentence is 'thing' and the verb of the sentence is 'seems'

• Let's see an example-

• To do it with a split dressing room is like fighting with one hand tied behind your back.

So the correct sentence is→ Even a simple thing like washing the hands seems killing.

Q24. Answer: (d) ABC

The correct answer is 'ABC'

Key Points

• Huge is an adjective.

• After an adjective, we need to write a noun and according to the meaning, the correct noun is 'step' after this the last word of sentence A is 'this' hence we need a noun after this too.

• So the correct sequence is 'ABC'

That was a huge step to take, especially in this generation where WhatsApp rules over so many humans.

Q25. Answer: (b) pretensions

The correct answer is 'Pretensions'

Key Points

• Pretensions (a claim or assertion of a claim to something).

• Let's see an example-

• We like him for his honesty, his lack of pretension.

• So the correct answer is 'Option 2'

Q26. Answer: (b) June: 30

Here, Pattern is such that second term is the number of days the month in the first term have i.e.

July: 31 → July month have total 31 days.

Let’s check all the options.

April: 31 → Here April month does not have 31 days it has 30 days.

June: 30 → Here June month have total 30 days.

September: 31 → Here September month does not have 31 days it has 30 days.

January: 30 → Here January month does not have 30 days it has 31 days.

Hence, June: 30 is the correct alternative.

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Q27. Answer: (b) 203

Here pattern is such that 2^(nd) number is 7 more than the 1^(st) number i.e.

109 : 116 → 109 + 7 = 116.

Similarly, 196 : ? → 196 + 7 = 203.

Thus, 203 is the correct alternative.

Q28. Answer: (c) KUN

The pattern here is as follows,

Therefore, KUN is the correct alternative.

Q29. Answer: (c) Animals - Zoo

In all the pairs, the 1^(st) word is a place where the 2^(nd) word is found or 1^(st) word is meant for 2^(nd) word i.e.

Hospital - Patient → Hospital is a place for the treatment of patient.

Garage - Car → Garage is a place for the maintaining or repairing cars.

Dispensary - Medicine → Dispensary is a place where Medicines are found or kept for purchase or sale.

But in, Animals - Zoo → Here 1^(st) word (i.e. Animals) is not a place for keeping 2^(nd) word (i.e. Zoo) but vice versa is true.

Thus, Animals - Zoo is the odd pair.

Q30. Answer: (c) 9 - 29

Out of the given options, 9 - 29 is odd one because in all other options 2nd term is thrice the 1st term i.e.

5 - 15 → 5 × 3 = 15

7 - 21 → 7 × 3 = 21

11 - 33 → 11 × 3 = 33

But in 9 - 29 → 9 × 3 = 27 which is not equal to 29.

Thus, 9 - 29 is odd one.

Q31. Answer: (c) GJN

Here, it follows a pattern of + 3 between two consecutive characters as shown below:

Hence, GJN is the odd one.

Q32. Answer: (c) 1,2,4,5,3

The dictionary sequence is:

Stylish → Subject → Subtle → Suburban → Sudden.

Thus, 1,2,4,5,3 will be the correct sequence.

Q33. Answer: (c) 175

The relation between the numbers is as follows,

20 + 23 = 43

23 + 43 = 66

43 + 66 = 109

66 + 109 = 175

Hence, the next number is 175.

Q34. Answer: (b) GXS

The pattern is as follows,

Hence, the next term is GXS.

Q35. Answer: (d) 8 or 9

Rohit remembers that his birthday is before 12th December and after 6th December i.e.

Birthday is either on 7^(th), 8^(th), 9^(th), 10^(th), or 11^(th)December.

His wife remembers that Rohit's birthday is after 7th December i.e.

Birthday is either on 8^(th), 9^(th), 10^(th), or 11^(th)December.

His son remembers that Rohit's birthday is before 10th December i.e.

Birthday is either on 8^(th) or 9^(th) December.

Hence, Rohit's birthday is either on 8^(th) or 9^(th) December.

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Q36. Answer: (d) Best

Let's check each option,

1) SON → can be formed from OBSESSION.

2) BOSS → can be formed from OBSESSION.

3) NOSE → can be formed from OBSESSION.

4) BEST → cannot be formed because there is no 'T' in OBSESSION.

Hence, BEST can't be formed from word OBSESSION.

Q37. Answer: (a) UQEMU

The pattern here is as follows

Hence, UQEMU is the correct alternative.

Q38. Answer: (d) 9

Calculation:

The given equation is: 10 × 4 ÷ 5 - 6 + 10 = ?

Here '÷' represents '+', '-' represents '×', '+' represents '÷' and '×' represents '-'. So, let's replace the sign in the above equation.

10 × 4 ÷ 5 - 6 + 10 → 10 - 4 + 5 × 6 ÷ 10 = 13 - 4 = 9

Hence, 9 is the correct alternative.

Q39. Answer: (c) ÷ and ×

The given equation is: 25 ÷ 2 × 10 - 4 + 8 = 9

Let's check each option,

1) × and - → 25 ÷ 2 - 10 x 4 + 8 = -19.5 ≠ 9

2) ÷ and - → 25 - 2 × 10 ÷ 4 + 8 = 28 ≠ 9

3) ÷ and × → 25 x 2 ÷ 10 - 4 + 8 = 9 = 9

4) - and + → 25 ÷ 2 × 10 + 4 - 8 = 121 ≠ 9

Hence, by interchanging ÷ and x the equation will be correct.

Q40. Answer: (a) 10

The pattern here is as follows, two numbers are given separated by '*'. We get the answer by multiplying the two numbers and again multiplying the result by 2 to get the answer.

Let A and B are two numbers such that A*B then

A*B = (A × B) x 2 i.e.

9*8 = (9 × 8) x 2 = 72 × 2 = 144

7*7 = (7 × 7) x 2 = 49 × 2 = 98

7*8 = (7 × 8) x 2 = 56 × 2 = 112

Similarly, 5*1 = (5 × 1) x 2 = 5 × 2 = 10.

Hence, 10 is the correct alternative.

Q41. Answer: (d) AAAAAAA

The pattern here is the letter 'B' which is to the immediate left of letters 'A' is converted to 'A' in every step and hence increasing the number of letter 'A' in every step i.e.

BBBBBAA, BBBBAAA, BBBAAAA, BBAAAAA, BAAAAAA, AAAAAAA.

Hence, AAAAAAA is the correct alternative.

Q42. Answer: (c) 75 miles South

The diagram below shows the route taken by two cargo ships A and B starting from the same port,

Clearly, we can see that the ship A is 45 + 30 = 75 miles in South direction from ship B.

Q43. Answer: (c) Both conclusions I and II follow

Consider the following least possible Venn diagram,

Conclusions:

I. Some openings are doors → True (It is definitely true as some opening will always be doors).

II. All doors are openings → True (It is definitely true as all windows are openings).

Hence, both conclusions I and II follow.

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Q44. Answer: (d) DF

Here, rectangle represents Electricians, circle represents Cartoonists, triangle represents Riders and square represents Indians.

Clearly, Indians who are either Cartoonists or Riders is represented by either the intersection of square and triangle or square and circle i.e. DF.

Hence, DF is the correct alternative.

Q45. Answer: (d) WCK

The pattern is as follows,

Hence, the next term is WCK.

Q46. Answer: (c) 173

The relation between the numbers is as follows,

113 + 15 = 128

128 + 15 = 143

143 + 15 = 158

158 + 15 = 173

173 + 15 = 188

Hence, the missing number is 173.

Q47. Answer: (b) (9, 44, 28)

The pattern followed here is:

1) 17 + 6 = 23 and 23 + 6 = 29

2) 28 + 9 = 37 and 37 + 7 = 44

3) 53 + 18 = 71 and 71 + 18 = 89

4) 38 + 13 = 51 and 51 + 13 = 64

Hence, (9, 44, 28) is the odd one.

Q48. Answer: (d) [figure]

The mirror image of the question will be:

Hence, we can say that option 4 is the correct mirror image of the given question.

Q49. Answer: (a) [figure]

If we consider face with “

” as centre and fold its surrounding faces inside, we find that face with “

” and “

” are opposite to each other, face with “

” and “

” are opposite to each other and face with “

” and “

” are opposite to each other.

Here, cube in option 1 of the answer figure cannot be made based on the unfolded cube in the question because face with “

” and “

” are opposite to each other which is shown adjacent in option 1.

Hence, Option 1 is the correct alternative.

Q50. Answer: (b) 97,13,65,98

Let’s check all the options,

1) 42,75,40,76 → MWKQ

2) 97,13,65,98 → SENT

3) 44,75,34,76 → JWMQ

4) 34,89,44,97 → MZJS

Thus, the correct option is 97,13,65,98.

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Q51. Answer: (d) 350

GIVEN:

2/5 × Number – 2/7 × Number = 40

CALCULATION:

Let the number be 'x'

=> (2/5)x – (2/7)x = 40

=> (4/35)x = 40

=> x = (40 × 35)/4 = 350

Therefore The number is 350

Q52. Answer: (a) 44.44%

Let the number be 'x'

=> (2/3) × (3/4) × (4/9) × (1/60) × 120 × x = (4/9)x

Therefore Required percentage = (4/9) × 100 = 44.44%

Q53. Answer: (c) 1

Laws of Indices:

1. a^m × aⁿ= a^({m + n})

2. a^m÷ aⁿ= a^({m - n})

3. (a^m)ⁿ= a^(mn)

4. (a)^(-m)= 1/a^m

5. (a)^(m/n) = ⁿ√a^m

6. (a)^0= 1

Calculoation:

5^x + 5^(1-x) – 6 = 0

=> 5^x + 5/5^x – 6 = 0

Let y = 5^x,

=> y + 5/y – 6 = 0

=> y² – 6y + 5 = 0

=> y² – y – 5y + 5 = 0

=> y(y – 1) – 5(y – 1) = 0

=> (y – 1)(y – 5) = 0

=> y = 1, 5

When y = 1, then 5^x = 1 = 5^0, hence, x = 0

When y = 5, then 5^x = 5 = 5¹, hence, x = 1

Important Points

Because It is mentioned in question that x > 0 so we will not take the value of x that is equal to zero

Therefore x = 1

Q54. Answer: (c) 16

Given:

Perimeter of square = 24 units

Calculation:

Side of square = perimeter/4 = 24/4 = 6 units

When the side is reduced, new side = 6 – 2 = 4 units

Therefore Area of square = 4 × 4 = 16 sq. units.

Q55. Answer: (b) 7 < x < √161

Calculation:

The sides a, b and c of an obtuse triangle are related as,

c²/2 < a² + b²< c²

Let a = x, b = 8 cm and c = 15 cm

=> 15²/2 < x² + 8²< 15²

=> 112.5 < x^2 + 64 < 225

=> 112.5 – 64 < x^2< 225 – 64

=> 48.5 < x^2< 161

=> √48.5 < x < √161

Because √49 = 7, we can write

Therefore 7 < x < √161

Q56. Answer: (c) √161 < x < 17

Calculation:

The sides a, b and c of an acute triangle are related as,

$a^2 + b^2 > c^2$, $b^2 + c^2 > a^2$ and $a^2 + c^2 > b^2$

Let a = x, b = 8 cm and c = 15 cm

=> $x^2 + 8^2 > 15^2$

=> $x^2 > 225 – 64$

=> $x^2 > 161$

=> x > √161

Also,

=> $8^2 + 15^2 > x^2$

=> $64 + 225 > x^2$

=> $289 > x^2$

=> 17 > x

Therefore The required answer is √161 < x < 17.

Q57. Answer: (b) 50

Calculation:

Let the three numbers be x, y, z

=> x = (100 – 40)% of z = 60% of z = 0.6 z

=> y = (100 – 70)% of z = 30% of z = 0.3 z

=> x/y = 2

=> y = x/2 = 50% of x

Therefore The second number is 50% less than the first number

Shortcut TrickRatio of 1st to 2nd no. = (100 - 40) : (100 - 70)

=> 60 : 30

=> 2 : 1

2nd no. = 1 unit less than 1st one = 1/2 = 50% less

Q58. Answer: (a) 15 : 16

Given:

Sum of two numbers = 248

Difference = 8

Calculation:

Let the numbers be x and y

Sum = x + y = 248 ----(1)

Difference = x – y = 8 ----(2)

Adding eq. (1) and (2), we get,

=> 2x = 248 + 8

=> x = 256/2 = 128

=> y = 128 – 8 = 120

Therefore Ratio of numbers = 120 : 128 = 15 : 16

Q59. Answer: (c) 21000

Given:

Investment made by P = Rs. 156000

Investment made by Q = Rs. 117000
Concept used:
If time period of investment is same, then Ratio of their share in total profit = Ratio of their investments
Calculation:
Ratio of their share in total profit = Ratio of their investments
=> 156000 : 117000 = 4 : 3
Sum of ratios = 4 + 3 = 7
P's profit = (4/7) of (Total profit)
Therefore Total profit = 12000 × (7/4) = Rs. 21000

Q60. Answer: (b) 145

Given:
Average of 26 numbers = 37
Calculation:
Let the new number be 'x'
Sum of 26 numbers = 26 × 37 = 962
When x is added, sum of 27 numbers = 27 × 41 = 1107
=> 962 + x = 1107
=> x = 1107 – 962 = 145
Therefore The new number is 145

Q61. Answer: (d) 30/7

Given:
S.I. = 9/49 of Principal
The number of years = Rate of interest per annum
Formula used:
Simple interest = (Principal × Rate × Time)/100
Calculation:
Let Principal = P, Rate = Time = R
=> (9/49)P = (P × R × R)/100
=> R^2 = 900/49
=> R = √(900/49) = 30/7
Therefore The rate of interest is 30/7% p.a.

Q62. Answer: (a) No profit/loss

Given:
Cost price of 20 articles = 5 × Selling price of 4 articles
Calculation:
=> 20 × Cost price of 1 article = 5 × 4 × Selling price of 1 article
=> Cost price of 1 article = Selling price of 1 article
Therefore There is neither any profit nor any loss

Q63. Answer: (a) 4000

Given:
Discounts = 10%
Formula used:
Selling price = Marked price – Discount
Calculation:
=> 4050 = (100 – 10)% of (100 – 10)% of Marked price
=> 4050 = 0.9 × 0.9 × Marked price
=> Marked price = 4050/0.81 = Rs. 5000
At a single discount of 20%,
Selling price = (100 – 20)% of 5000 = 0.8 × 5000

Therefore Selling price = Rs. 4000

Q64. Answer: (c) Neither I nor II

Calculation:
Considering statement I,
√24 < cbrt70
=> (24)^(1/2) < (70)^(1/3)
Taking their 6^(th) power,
=> ((24)^(1/2))^6 < ((70)^(1/3))^6
=> $(24)^3 < (70)^2$
=> 13824 < 4900, which is not true
Considering statement II,
√12 < ?20
=> (12)^(1/2) < (20)^(1/4)
Taking their 4^(th) power,
=> ((12)^(1/2))^4 < ((20)^(1/4))^4
=> $(12)^2 < (20)^1$
=> 144 < 20, which is not true
Therefore Neither I nor II is true

Q65. Answer: (a) 40

Given:
No. of days X and Y take to complete a work = 10
No. of days Y and Z take to complete a work = 12
No. of days Z and X take to complete a work = 15
Formula used:
Total work = Efficiency × Time
Calculation:
(1 day work of X) + (1 day work of Y) = 1/10 ----(1)
(1 day work of Y) + (1 day work of Z) = 1/12 ----(2)
(1 day work of Z) + (1 day work of X) = 1/15 ----(3)
Adding (2) and (3), we get,
=> (1 day work of X) + (1 day work of Y) + 2(1 day work of Z) = 1/12 + 1/15 = 3/20
Substituting (1), we get,
=> 1/10 + 2(1 day work of Z) = 3/20
=> 2(1 day work of Z) = 3/20 – 1/10 = 1/20
=> 1 day work of Z = 1/(20 × 2) = 1/40
Therefore Z will alone do the work in 40 days
Shortcut TrickLet the total work = LCM (10, 12, 15) = 60
Efficiency of X + Y = 60/10 = 6 units/day
Efficiency of Y + Z = 60/12 = 5 units/day
Efficiency of Z + X = 60/15 = 4 units/day
Efficiency of 2(X + Y + Z) = 15 units/day
So,Efficiency of (X + Y + Z) = 7.5 units/day
Now, Efficiency of Z = 7.5 - 6 = 1.5 units/day
Z alone do the work = 60/1.5 = 40 days

Q66. Answer: (b) 9 : 45

Given:
Distance between = 720 km
Calculation:
Time taken by the train without stoppage = Distance/Speed = 720/45 = 16 hrs.
The train left X at 5:00 p.m., so without any stoppage, it will reach Y at 9:00 a.m.

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Because The train stops for 45 min,
Therefore It will reach Y at 9:45 a.m.

Q67. Answer: (d) E

No. of leopards in sanctuary E = 50
Therefore The least no. of leopards are in sanctuary E

Q68. Answer: (a) 2250

Total no. of leopards in these sanctuaries = 150 + 600 + 600 + 100 + 50 + 150 + 600 = 2250

Q69. Answer: (d) 96

No. of leopards in sanctuary B = 600
Total no. of leopards = 2250
Therefore Central angle of the sector representing the no. of leopards in Sanctuary B = (600/2250) × 360° = 96°

Q70. Answer: (a) 157.5

Total no. of leopards = 2250
Therefore Total area of sanctuaries = 2250 × 70 = 157500 sq. km = 157.5 (in 1000 sq. km)

Q71. Answer: (b) 4

Given:
Two parallel sides of trapezium = 5 cm and 7 cm
Formula used:
Area of trapezium = [(sum of parallel sides) × (distance between parallel sides)]/2
Calculation:
=> 24 = [(5 + 7) × (distance between parallel sides)]/2
Therefore Distance between parallel sides = (24 × 2)/12 = 4 cm

Q72. Answer: (d) 6

Given:
The interior angle of a regular polygon - the measure of its exterior angle = 60°
Concept used:
For a regular polygon with n sides,
Interior angle = 180° – 360°/n
Exterior angle = 360°/n
Calculation:
=> 180° – 360°/n – 360°/n = 60°
=> 120° = 720°/n
=> n = 720°/120° = 6
Therefore The polygon has 6 sides

Q73. Answer: (c) 1056

Given:
Diameter = 24 cm
Slant height = 16 cm
Concept used:
For a right circular cone with radius ‘r’ and slant height ‘l’,
Total surface area = πr(l + r)
Calculation:
Radius of given cone = 24/2 = 12 cm
Therefore Total surface area of given cone = (22/7) × 12 × (12 + 16) = 1056 cm²

Q74. Answer: (d) (√2 - 1)/√2

Concept used:
Calculation:

tan 45° – 1/√2

=> 1 – 1/√2

=> (√2 – 1)/√2

Q75. Answer: (c) 5/3

Given:

sin U = 4/5

Calculation:

In the given ΔUVW shown below,

sin U = opposite/hypotenuse = VW/UW = 4/5

=> VW = 4 units and UW = 5 units

Using Pythagoras theorem,

=> $UV^2 = UW^2 – VW^2 = 25 – 16 = 9$

=> UV = √9 = 3 units

Therefore cosec W = hypotenuse/opposite = UW/UV = 5/3

Q76. Answer: (b) Normal Layout

- In Microsoft Word, Normal Layout view shows formatting such as line spacing, font, point size, and italics.
- The normal layout is also known as the normal.dotm layout (in recent versions) and opens whenever Microsoft Word is started.
- It includes default customizations and styles which affect the look of the document.

Q77. Answer: (a) Only A

- Henri Kontinen and John Peers defeated Lukasz Kubot and Marcelo Melo in the finals by, 6-4, 6-2, to win the 2017 ATP World Tour Finals Men’s Doubles.
- MotoGP is a motorcycle racing World Championship and Sebastian Vettel is a car racing driver.
- Lewis Hamilton won the 2017 Chinese Grand while Daniel Ricciardo came in 5^(th).
- Therefore, only option A is correct.

Q78. Answer: (a) pressure at that place is lowered

- Where warm air rises up, the air pressure at that place is lower.
- The density of warm air is less which causes it to rise and this creates an area of low pressure.
- Conversely, the density of cold air is more which causes it to sink thus creating an area of high pressure.

Q79. Answer: (c) uniform

CONCEPT:

- Linear motion: When an object is moving on a straight line then the motion of the object is called linear motion.
- Translational motion: When the object moves from one place to another without any rotation of the object then this type of motion is called translational motion.
- Uniform speed: When the object is moving on a path with constant speed then this type of speed is called uniform speed.
- When an object travels equal distances in equal intervals of time, it moves with uniform speed.
- An example of uniform speed is a car moving on a straight road(linear path) without any change in its velocity.
- Non-uniform speed: When the speed of the object changes with time then it is called non-uniform speed.

EXPLANATION:

- When an object travels equal distances in equal intervals of time, it moves with uniform speed.
- For example, An object falling at terminal velocity experiences the same air resistance as its weight.
- Newton's first law can be used to explain the movement of objects traveling with uniform motion.
- Newton's first law is a body that is at rest or moving at a uniform rate in a straight line will remain in that state until some force is applied to it.

Q80. Answer: (b) 125

CONCEPT:

- Equation of motion: The mathematical equations used to find the final velocity, displacements, time, etc of a moving object without considering force acting on it are called equations of motion.
- These equations are only valid when the acceleration of the body is constant and they move on a straight line.
- There are three equations of motion:

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V = u + at

V2 = u2 + 2 a S

$S = ut + 1/2at^2$

Where, V = final velocity, u = initial velocity, s = distance traveled by the body under motion, a = acceleration of body under motion, and t = time taken by the body under motion.

EXPLANATION:

Given - Acceleration (a) = 2 m/s^2, Final velocity (v) = 30 m/s and Initial velocity (u) = 20 m/s

Displacement = s

We know,

=> $v^2- u^2 = 2as$ (Equation of Motion)

=> $s = (v^2- u^2)/ (2 x a)$

=> $s = (30^2-20^2) / (2 x 2)$

=> s = 500 /4

=> s = 125 m

Q81. Answer: (b) 15

• Lok Sabha passed the IIIT-PPP Bill on 20^(th) July 2017.

• This bill attempts to allow the establishment of 15 IITs (Indian Institute of Technology) on the PPP (Public Private Partnership) model to grant degrees and get a statutory status.

• It also attempts to grant the IITs and NITs (National Institute of Technology) with the Institute of national importance status.

Q82. Answer: (a) $ 13 billion

• In August 2017 Essar Oil Limited was acquired by Russia's Rosneft PJSC for nearly $13 billion.

• Rosneftbought 49% of the stake and another 49% was equally split between Netherlands-based Trafigura Group Pte and United Capital Partners.

• The deal was a way for Essar Oil to reduce its debt and has been termed as the largest foreign investment in India.

Q83. Answer: (c) Typbar Typhoid Conjugate Vaccine

• TypbarTCV is the name of the world's first typhoid vaccine that has received pre-qualification from the World Health Organization.

• This tag makes the Typhoid Conjugate Vaccine eligible for procurement by UN agencies like PAHO, UNICEF and GAVI supported countries.

• The vaccine was developed by Bharat Biotech and received the pre-qualification on January 3, 2018, at Hyderabad, Genome Valley.

Q84. Answer: (b) Rajnath Singh

• On 26^(th) September 2017, Rajnath Singh, the Home Minister of India, launched the 'PENCIL' portal at the National Conference on Child Labour at Pravasi Bhartiya Kendra, Chanakya Puri, New Delhi.

• PENCIL stands for Portal For Effective Enforcement For No Child Labour.

• This portal is an electronic platform that seeks to achieve a child labour free society as per the National Child Labour Project Scheme started in 1988 by involving the general public, civil services, Centre, State and District Governments.

Q85. Answer: (b) smell

The correct answer is the smell.

CONCEPT:

• Receptors are the organs or cells which respond to light, heat, or external stimulus and transmit the signal to the sensory nerve.

• The smell receptors known as chemoreceptors are present in the Olfactory Epithelium in the nose.

• Olfactory receptors are located in our noses.

• The olfactory system allows the human body to detect and process smell.

• These are also known as smell receptors and are capable of binding odor molecules.

• Most of the olfactory receptors are found on the superior or external surface of the nasal cavity.

• Olfactory receptors are present in the nose and are responsible for giving rise to the sense of smell.

EXPLANATION:

Olfactory epithelium:

• The olfactory receptors in human beings detect smell.

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• Olfactory receptors are proteins that exist as clusters at the back of the nasal cavity and interact with odor molecules thus playing a role in smelling.

• The organ of smell is a yellow-tinged patch of the pseudostratified epithelium (olfactory epithelium) located on the roof of the nasal cavity.

• Air entering the nasal cavity must make a hairpin turn to stimulate olfactory receptors before entering the respiratory passageway

• This is why sniffing, which draws more air superiorly across the olfactory epithelium, intensifies the sense of smell.

• Jacobson's Organ: The proper anatomical name for Jacobson's Organ is the Vomeronasal Organ. The Vomeronasal Organ is a supplemental olfactory sense organ that m…

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Q86. Answer: (b) Photosynthesis

• Photosynthesis is the process by which autotrophs take inorganic substances from the outsideand convert them into organic substanceswhich are stored form of energy.

• Plants use light energy from the sun to convert carbon dioxide and water into simple sugars which are a source of energy.

• The equation for photosynthesis:

$6CO_2 + 6H_2O + \text{light energy} = C_6H_{12}O_6 + 6O_2$

Q87. Answer: (c) 3

• There are three All India Services in India.

• These include the Indian Administrative Service (IAS), the Indian Forest Service (IFS) and the Indian Police Service (IPS) which are all Civil services of India.The officers can be allotted to any department, government or ministry.

• Other services are allotted particular ministries and can only be on deputation in other ministries.

Q88. Answer: (d) All I, II and III

• The above-mentioned government officials are charged salaries from the consolidated fund of India without the approval of the Parliament.

• Consolidated fund is a term that is used to describe the main bank account of the government in many countries.

• According to Article 266 (1) of the Indian Constitution, all the revenues received by the government through loans or direct or indirect taxes flow into the consolidated fund.

• Consolidated Fund includes revenues received by the government as well as the expenses made by it.

Q89. Answer: (d) Displacement reaction

Concept:

Chemical Reactions:

• A process in which one or more compounds are formed as products completely different from the reacting substances is known as a chemical reaction.

• There is generally a change in heat, colour, or appearance when a chemical reaction takes place.

• The evolution of gas may also occur.

• A chemical reaction may be reversible or irreversible in nature.

Types of Chemical Reactions-

The basis for different types of reactions is the product formed, the changes that occur, the reactants involved, and so on. Different types of reactions are

• Combustion reaction

• Decomposition reaction

• Neutralization reaction

• Precipitation or Double-Displacement Reaction

Neutralization reaction:

• The reaction of an acid with a base to give salt and water is called a neutralization reaction.

• Example is:

$NaOH$ (strong base) + HCl (strong acid) → $NaCl + H_2O$

Oxidation reaction:

• Oxidation Reaction refers to a reaction in which either the addition of Oxygen takes place or the removal of Hydrogen takes place.

• It can also be said as the process of loss of one or more electrons by atoms or ions.

• Example is:

Mg + O2 = Mg2O

Reduction Reaction:

• Reduction Reaction refers to a reaction in which either the addition of Hydrogen takes place or the removal of oxygen takes place.

• In the process of reduction, a chemical species also gains electrons.

• It is the reverse of the oxidation reaction.

• Example is:

H2 + F2 → HF

Exothermic reaction:

• It is a type of reaction where heat or energy is produced.

• For example, in the synthesis of ammonia from nitrogen and hydrogen.

N2 + 3H2 → 2NH3

Explanation:

A chemical reaction in which a less reactive element is displaced from its compound by a more reactive element is known as a displacement reaction.

• In the given reaction Fe (Less reactive element) of Fe2O3 gets displaced by Al (More reactive element).

Q90. Answer: (b) Co

• The chemical symbol of cobalt is Co.

• Its atomic number is 27 and it comes under group 9 and period 4 of the periodic table.

• A ferromagnetic metal, cobalt is mostly found in the Earth's crust in combined forms such as alloys.

Q91. Answer: (a) K.P. Sharma Oli

• The newly elected Prime Minister of Nepal is Khadga Prasad Sharma Oli from the Nepal Communist Party.

• K.P. Sharma Oli is the 38^(th)Prime Minister of Nepal and assumed office on 15^(th) February 2018.

• He previously served as the Prime Minister from 12^(th) October 2015 to 4^(th) August 2016.

Q92. Answer: (b) Mamta Kalia

• Mamta Kalia is the author of the book "DukkhamSukkham" which won the Vyas Samman 2017.

• This was Mamta Kalia's 27^(th) Vyas Samman award and was selected by a committee headed by author Vishwanath Prasad Tiwari.

• Published in 2009, the book deals with the lower middle-class families, focusing on their relationships and situations in the society.

Q93. Answer: (c) Saudi Arabia

• In December 2017, Saudi Arabia's Ministry of Culture and Information announced the lifting of its ban on movie theatres which was imposed more than 35 years ago.

• This announcement was made by Dr. Awad bin Saleh Al Awad, the Chairman of Board of Directors of the Audiovisual Media Authority and Minister of Culture and Information.

Q94. Answer: (c) Giddha

• Giddha is not an Indian classical dance form.

• It is a folk dance that is performed exclusively by women in the Punjab region of India and Pakistan.

• Indian classical dance forms include those styles which have mythological roots and whose theory and practice can be found in the Natya Shastra (Sanskrit text).

• Classical Dances of India- Bharatanatyam, Kathak, Kathakali, Kuchipudi, Mohiniyattam, Odissi, Sattriya, Manipuri are the recognized Indian classical dance forms.

Dances	Origin	Main Reviving Personals	Famous Proponents
Bharatnatyam	Tamil Nadu	E. Krishna Iyer, Rukmini devi Arindel	Yamini Krishnamurthy, Lakshmi Vishwanathan, Padma Subramaniam, Mrinalini Sarabhai, Mallika Sarabhai
Kuchipudi	Andhra Pradesh	Sobha Naidu, Ragini devi	Radha Reddy And Raja Reddy, Yamini Krishnamurthy, Indrani Rehman

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Kathakali	Kerala	V. N. Menon	Guru Kunchu Kurup, Gopinath, Kottakal Sivaraman, Rita Ganguly
Odissi	Odisha	Indrani Rehman, Charles Fabri	Guru Pankaj Charan Das, Kelu Charan Mohapatra, Sonal Mansingh, Sharon Lowen, MYrla Barvie
Manipuri	Manipur	Raja bhag Chandra, Rabindranath Tagore	Nayana, Suverna, Ranjana and Darshna, Guru Bipin Singha
Kathak	Uttar Pradesh	Lady Leela Sokhey	Birju Maharaj, Lacchu Maharaj, Sitara Devi, Damyanti Joshi
Sattriya	Assam	Shankaradeva	•
Mohiniattam	Kerala	V. N. Menon, kalayani Amma	Sunanda Nair, Kalamandalam kshmavathy, Madhuri Amma, Jayaprabha Menon

Q95. Answer: (c) In Bay of Bengal

• New Moore Island was a small, uninhabited island located in the Bay of Bengal.

• The island was off the coast of the Ganges-Brahmaputra delta, approximately 2 km from the mouth of the Hariabhanga river.

• Also known as South Talpatti, the island emerged in 1970 after cyclone Bhola.

• It disappeared in 2010 due to rising sea levels.

Q96. Answer: (b) Wegener

• The exponent of the Continental Drift Theory is Alfred Wegener.

• This theory states that the continents on Earth have moved relative to each other over geologic time thus appearing as though they have drifted across the ocean bed.

• While the idea was first presented by Abraham Ortelius in 1596, the full, developed theory was given by Alfred Wegener in 1912.

Q97. Answer: (a) Allahabad

The correct answer is Allahabad.

Key Points

• George Yule became the President of INC in 1888 in the fourth session held at Allahabad.

• He was the first non - Indian to be the President of INC.

• He belonged to the business community. He was the chief of the well-known Andrew Yule and Co. in Calcutta.

• He had also been Sheriff of Calcutta and President of the Indian Chamber of Commerce.

• Yule was widely known in Indian circles for his breadth of outlook, liberal views, and marked sympathy for Indian aspirations.

• Surendranath Banerjee described him as "a hard-headed Scotsman who saw straight into the heart of things, and never hesitated to express himself with the bluntness in which a Scotsman never fails if he wants to show it."

Q98. Answer: (d) Kalachuri

• The Kalachuri dynasty established in the 7^(th) century, ruled parts of Central India until the 13^(th) century.

• They were also known as Kalachuris of Tripuri as Tripuri (present-day Tewar, near Jabalpur) was their capital.

• Chedi region (also known as Dahala-mandala) was the core territory of this dynasty.

Q99. Answer: (b) 1861

• The earliest paper currency in India was issued by both private as well as semi-government banks like General Bank of Bengal and Bihar (1773-1775) and Bank of Hindostan (1770-1832).

• In 1861, the Paper Currency Act was enacted by the Government of India which gave the government the sole right to create and issue paper currency.

Q100. Answer: (c) capital expenditure

The correct answer is option 3 i.e Capital Expenditure,

• Investment in public work is known as capital expenditure.

• Public works include infrastructure projects like buildings, equipment, etc.

• In simple terms, the amount spent for repairing, buying, updating, or improving a company's long-term assets like equipment, business or buildings is known as capital expenditure.

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