SSC CHSL Previous Paper 20 (Held On: 12 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. Directions: In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) stareotype
(b) stereotype
(c) iliterrate
(d) Stareotyp

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

The fact that one has

A-to be fiercely independent

B-get accustomed to

C-in this country was hard to

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

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

New townships (has coming) up with claims of providing several amenities to the people.

(a) is coming
(b) has come
(c) are coming
(d) no improvement

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

I (have been advocate) moderation in daily physical exercise for nearly half a century in all my writings and books.

(a) have being advocating
(b) has been advocating
(c) have been advocating
(d) no improvement

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

A shake or tremble in a person's voice

(a) Permeate
(b) Rapacious

(c) Quaver
(d) Grove

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

Criticize in an abusive or angrily insulting manner

(a) Obeisance
(b) Veneration
(c) Approbation
(d) Revile

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

An axe to grind

(a) One cannot cut wood with a blunt axe.
(b) To have important jobs to do.
(c) Have an ulterior motive.
(d) A weapon is useful only when it is sharp.

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

Ease somebody's mind

(a) Alleviate someone's anxiety.
(b) Listen to somebody's grievances.
(c) Have the capacity to understand the other person's thoughts.
(d) Keep thinking about some person.

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.

So, in asking you to consider the processes of reasoning we are _____ assuming that you never have reasoned--_____ the contrary we are fully aware that you in connection _____ every other person, have reasoned all your mature life. That is not the question. While everyone reasons, the fact is _____ true that the majority of persons reason incorrectly. Many persons reason _____ lines far from correct and scientific, and suffer therefor and thereby.

Q9. Many persons reason _____ lines far from correct

(a) along
(b) long
(c) besides
(d) at

Q10. reasons, the fact is _____ true that the

(a) equal
(b) equally
(c) equality
(d) equalness

Q11. that you in connection _____ every other person,

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

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Q12. have reasoned--_____ the contrary we

(a) in
(b) on
(c) into
(d) onto

Q13. reasoning we are _____ assuming that you

(a) no
(b) not
(c) none
(d) nor

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

(a) Heirarchy
(b) Hierachy
(c) Hierarchy
(d) Hyrarchy

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

Meera said, “I prefer singing to dancing.”

(a) Meera said that she preferred singing to dancing.
(b) Meera say that she preferred singing to dancing.
(c) Meera said she prefer singing to dancing.
(d) Meera said that I prefer singing to dancing.

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

He gathers the apples.

(a) The apples gather by him.
(b) The apples are gathered by him.
(c) The apples were gathered by him.
(d) The apples got gathered by him.

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

Stem cells

P: are being researched

Q: forming blood vessels

R: especially for

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

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

Disarming

(a) Detestable
(b) Charming
(c) Silk
(d) Convincing

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

Preposterous

(a) Ridiculous
(b) Excessive
(c) Incredible
(d) Reasonable

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

Echelon

(a) Era
(b) Year
(c) Echo
(d) Rank

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

Niggard

(a) Kind
(b) Unselfish
(c) Miser
(d) Generous

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

Egoism is _____ or negative pride-the mentality of showing and acting superior to others.

(a) surfeit
(b) conceit
(c) forfeit
(d) receipt

Q23. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

My grandmother died five years _____.

(a) ago
(b) since
(c) before
(d) from

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

Seeing the increasing number of female foeticide (1)/ the Prime Minister has come with an initiative (2)/ that is guaranteed to give protection to the girl child. (3)/ No error (4)

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

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

Dinesh has been (1)/ absence from (2)/ school since last month. (3)/ No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

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

Clothes : Tailor :: ? : ?

(a) Shoes : Cobbler
(b) Food : Eat
(c) Furniture : Producer
(d) Mason : Wall

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

46 : 52 :: ? : ?

(a) 93 : 99
(b) 44 : 52
(c) 54 : 64
(d) 53 : 58

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

RAM : NWI :: LIP : ?

(a) HEL
(b) LQV
(c) HAP
(d) PET

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

(a) Cow - Grass
(b) Monkey - Banana
(c) Rabbit - Carrot
(d) Dog - Bark

Q30. In the following question, four number pairs are given. The number on left side of (–) is related to the number of 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) 11 - 121
(b) 13 - 169
(c) 19 - 361
(d) 17 - 279

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

(a) FDB
(b) LJI
(c) SQO
(d) ZXV

Q32. From the given alternatives, according to the dictionary, which word will come at the LAST position?

1. Choir
2. Choice
3. Chunk
4. Cheer
5. Church

(a) Choir
(b) Church

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(c) Cheer
(d) Chunk

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

12, 17, 34, ?, 78, 83, 166

(a) 36
(b) 33
(c) 39
(d) 45

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

W, T, Q, N, ?

(a) K
(b) J
(c) I
(d) L

Q35. In a row of boys, Amit is ranked 12^(th) from the top and Ratan is 15^(th)from the bottom. They interchange their position. Ratan now becomes 37^(th) from the bottom. How many boys are there in the row?

(a) 48
(b) 49
(c) 100
(d) 47

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

EXPENDITURE

(a) PEN
(b) EXPECT
(c) TURN
(d) END

Q37. In a certain code language, “LUNGS” is written as “OWQIV”. How is “HEART” written in that code language?

(a) GDTJV
(b) KGDTW
(c) JGDTW
(d) GHEWT

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

9 ÷ 16 - 25 + 10 × 20 =?

(a) 50
(b) 29
(c) 37
(d) 43

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

4 - 10 ÷ 5 × 4 + 12 = 16

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

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Q40. If 70!10 = -7, 70!5 = -14 and 40!4 = -10, then find the value of 20!2 = ?

(a) 30
(b) -10
(c) 12
(d) -24

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

aBABABAB, AbABABAB, ABaBABAB, ABAbABAB, ABABaBAB, _____.

(a) ABABABaB
(b) ABABAbAB
(c) aBABABAB
(d) AbABABAB

Q42. A woman starts from her home and walks 2km North, then she turns East and walks 9 km, then she turns South and walks 1 km, then she turns West and walks 2 km, then she turns to her left and walks 1 km to reach the well. Where is her home with respect to the well?

(a) 11 km West
(b) 7 km East
(c) 7 km West
(d) 11 km East

Q43. In the question below, two statements are given followed by two conclusions I and II. You have to consider the statements to be true even if they seem 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 cigars are cigarettes.

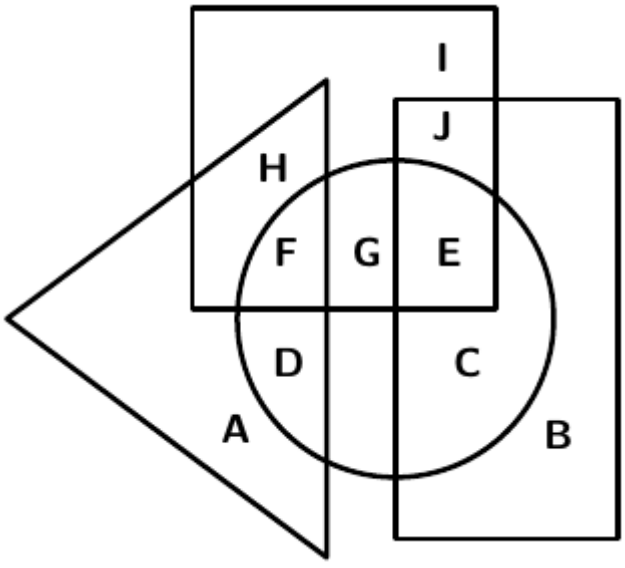
Statement II: All tobacco are cigars.

Conclusion I: Some cigarettes are tobacco.

Conclusion II: No tobacco are cigarettes.

(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, the rectangle represents Therapists, the circle represents floral designers, the triangle represents Poets and the square represents Football players. Which set of letters represents Therapists who are either floral designers or Football players?



(a) FD
(b) JC

(c) FGE
(d) DC

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

POT, OMS, NKR, MIQ, ?

(a) LGP
(b) KGO
(c) LHP
(d) KHO

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

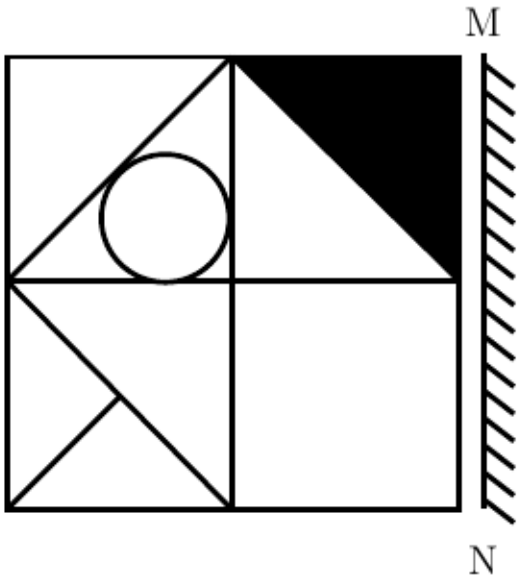
64, 75, 86, 97, ?, 119

(a) 118
(b) 108
(c) 98
(d) 109

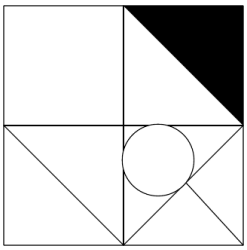
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (3, 9, 27)
(b) (6, 18, 56)
(c) (7, 21, 63)
(d) (8, 24, 72)

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

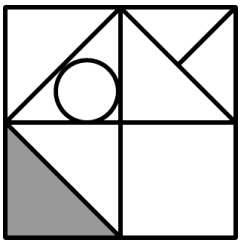


(a)

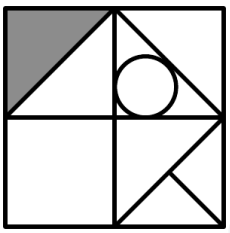


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(b)



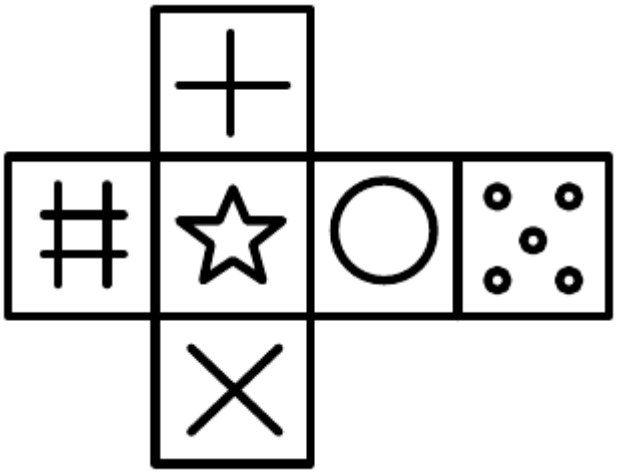
(c)



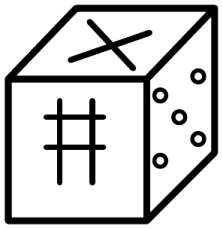
(d)



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

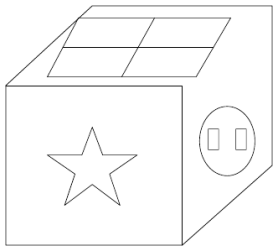


(a)

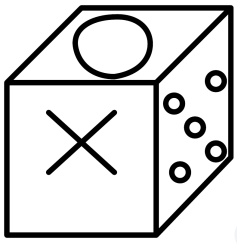


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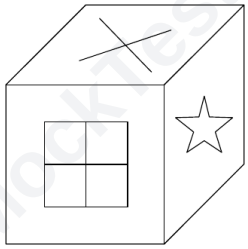
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are resented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matix-I are numbered from 0 to 4 and that a Matrix-II is numbered from 5 to 9. A letter from these matrices can be represented first by its row and row and next by its column, for example, ‘E’ can be represented by 12, 34 etc., and ‘W’ can be represented by 56, 97 etc. Similarly, you have to identify the set for the word “SOAK”.

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

(a) 20,75,20,97
(b) 44, 95, 32, 66
(c) 31, 87, 33, 65
(d) 85, 58, 10, 13

QUANTITATIVE APTITUDE

Q51. The addition of a rational number and its reciprocal is 61/30. Calculate the number.

(a) 5/6,6/5
(b) 5/6,7/5
(c) 7/6,6/5
(d) 7/6,7/5

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Q52. Find the unit place digit in the expression given below.

1! + 2! + 3! + 4! + ... + 20!

(a) 5
(b) 0
(c) 3
(d) 9

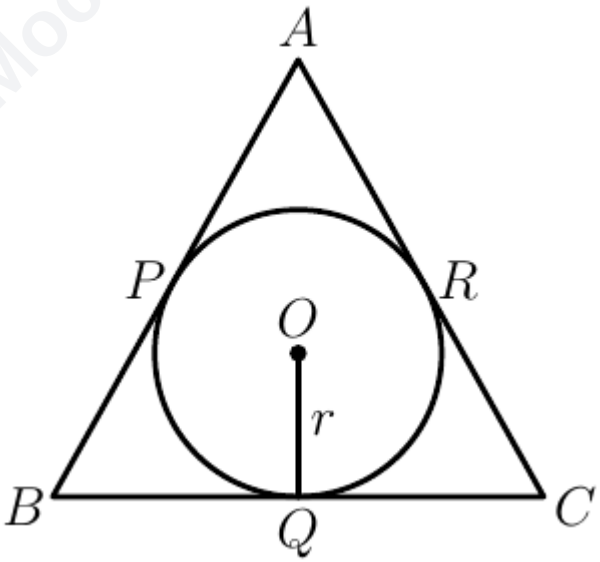
Q53. Determine the value of a/b + b/a when a + b = 8 and ab = 4

(a) 4
(b) 8
(c) 12
(d) 14

Q54. Find the value of $x^3 - y^3$, if x - y = 4 and xy = 12

(a) 198
(b) 208
(c) 218
(d) 228

Q55. A triangle is circumscribed on the circle of centre O in such a way that sides AB = 12 cm, BQ = 7 cm and CQ = 5cm. Calculate the length (in cm) of side AC.



(a) 8
(b) 10
(c) 12
(d) 14

Q56. The line parallel to the BC of the triangle ABC divides the other two sides at the point D and E in such a way that AB = 3AD. Calculate the ratio of DE and BC.

(a) 1 : 6
(b) 1 : 4
(c) 1 : 3
(d) 3 : 1

Q57. If A% of A is 196, then what is the value of A?

(a) 170
(b) 160
(c) 120
(d) 140

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Q58. If a/b = c/d = e/f = 2/5, then what is (5a + 3c + 2e) : (5b + 3d + 2f)?

(a) 2 : 5
(b) 3 : 5
(c) 16 : 25
(d) 20 : 33

Q59. C and D started a business by investing Rs. 4000 and Rs. 5000 respectively. After 3 months, C withdraws Rs. 1000 while D invest Rs. 1000 more after 6 months of the starting of business. At the end of the year C's share is Rs. 3900. What will be the total profit (in Rs.) at the end of year?

(a) 7800
(b) 10500
(c) 8400
(d) 12200

Q60. The average height of 40 sticks is 154 cm. Some sticks of average height 160 cm are taken out. If the new average height is 150 cm, then how many sticks are remaining?

(a) 12
(b) 16
(c) 24
(d) 28

Q61. Simple interest on a sum for 12 months at the rate of 25% per annum is Rs. 935. What is the value (in Rs.) of sum?

(a) 3740
(b) 3200
(c) 4410
(d) 4720

Q62. The difference between cost price and selling price is Rs. 451. If loss percentage is 11%, then what is the selling price (in Rs)?

(a) 3254
(b) 3649
(c) 3857
(d) 4100

Q63. A shopkeeper marks the price of his table 30% above the cost price. He allows his customers a discount of 12% on the marked price. What is the profit percentage?

(a) 14.4
(b) 18
(c) 16.66
(d) 12.5

Q64. What is the simplified value of $1/(\sqrt{25} - \sqrt{24}) - 1/(\sqrt{24} - \sqrt{23}) + 1/(\sqrt{23} - \sqrt{22}) - 1/(\sqrt{22} - \sqrt{21}) + 1/(\sqrt{21} - \sqrt{20})$?

(a) $5 + 2\sqrt{5}$
(b) $5 - 5\sqrt{2}$
(c) $\sqrt{25} + \sqrt{21}$
(d) $\sqrt{25} - 4$

Q65. X and Y together can do a piece of work in 30 days. Y and Z together can do the work in 20 days. X starts the work and works for 15 days then Y takes that work and works for 27 days. Finally Z finishes the remaining work in 9 days. In how many days Y alone can complete the entire work?

(a) 60
(b) 45
(c) 50
(d) 65

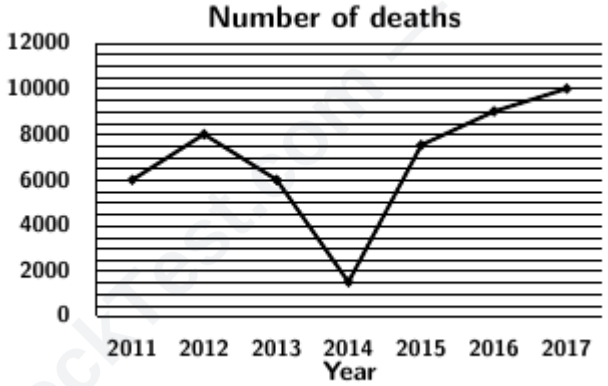
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Q66. A 220 metres long train takes 33 seconds to cross a 440 metres long bridge. How much time (in seconds) will the train take to cross a 350 metres long bridge?

(a) 28.5
(b) 17.5
(c) 23.5
(d) 27.5

Directions

Directions: The line graph shows the number of deaths due to dengue in a certain state. Study the diagram and answer the following questions.



Q67. In which year were the number of deaths lesser than that of the previous year?

(a) 2015
(b) 2016
(c) 2014
(d) 2017

Q68. What was the difference in the number of deaths between the years 2012 and 2014?

(a) 5500
(b) 6000
(c) 5000
(d) 6500

Q69. The number of deaths in 2013 were lesser than that in 2016 by _____%.

(a) 50
(b) 16.66
(c) 33.33
(d) 100

Q70. If on an average Rs 10 lakhs were paid as insurance for each death due to a dengue, then how much insurance was paid (in Rs crore) in the year 2015?

(a) 750
(b) 1250
(c) 1000
(d) 1500

Q71. The perimeter of a square is 30 cm. Find its area (in cm^2).

(a) 56.25
(b) 112.5
(c) 60.25
(d) 120.5

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Q72. The area of a circle is 346.5 cm². Find its radius (in cm).

(a) 10.5
(b) 21
(c) 7.5
(d) 15

Q73. Find the volume (in cm³) of a hemisphere of diameter 42 cm.

(a) 17832
(b) 153512
(c) 13858
(d) 19404

Q74. ΔABC is right angled at B. If mangle A = 60°, then find the value of (sec C + 2).

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

Q75. In ΔABC measure of angle B is 90°. If cos A = 5/13, and AB = 10 cm, then what is the length (in cm) of side BC?

(a) 26
(b) 24
(c) 25
(d) 5

GENERAL AWARENESS

Q76. What does cyclical unemployment mean?

(a) Unemployment during recessionary phase of trade cycle
(b) Disguised unemployment
(c) Seasonal unemployment
(d) Voluntary unemployment

Q77. Who represented the first union budget of independent India?

(a) Morarji Desai
(b) John Mathai
(c) TT Krishnamachari
(d) RK Shanmukham Chetty

Q78. Which of the following Harappan sites was not located in Gujarat?

(a) Lothal
(b) Daimabad
(c) Surkotda
(d) Dholavira

Q79. In 1852, who published the newspaper 'Satyaprakash' in Gujarati?

(a) Gangadhar Rao
(b) Vishnu Shastri
(c) Gopal Hari Deshmukh
(d) Karsandas Mulji

Q80. Which of the following is known as red planet?

(a) Venus
(b) Saturn
(c) Mars
(d) Neptune

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Q81. Which of the following countries has the smallest terrestrial border with India?

(a) Pakistan
(b) Nepal
(c) Myanmar
(d) Bhutan

Q82. Where is the Samadhi of Guru Gobind Singh located?

(a) Anandpur sahib
(b) Amritsar
(c) Nanded
(d) Ludhiana

Q83. In August 2017, which bank allowed India to construct Ratle Hydroelectric project which was opposed by Pakistan?

(a) Bank of England
(b) World bank
(c) International bank of reconstruction and development(IBRD)
(d) Asian development bank

Q84. Which of the following IAF Personnel has been posthumously awarded Ashoka Chakra, the country's highest peace time gallantry medal?

(a) Rajinder Kumar
(b) Jyoti Prakash Nirala
(c) Harshvardhan Negi
(d) Anant Thakur

Q85. Official currency of Nepal is called _____.

(a) Nepalese taka
(b) Loti
(c) Birr
(d) Nepalese rupee

Q86. Which of the following causes acid rain?

I. SO_2
II. NO_2
III. CO_2

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

Q87. What is the ratio of masses of hydrogen and oxygen in the water?

(a) 1 : 4
(b) 2 : 16
(c) 1 : 16
(d) 1 : 64

Q88. The President of India appoints how many chief election commissioner(s)?

(a) One
(b) Two
(c) Three
(d) Four

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Q89. Who is the primary lawyer of Government of India in the Supreme Court?

(a) Comptroller and Auditor General of India
(b) Advocate General of State
(c) Attorney General of India
(d) Chief Election Commissioner of India

Q90. The exit of food from the stomach is regulated by a _____ muscle.

(a) Cardiac
(b) Sphincter
(c) Skeletal
(d) None of the above

Q91. What are the organs similar in basic structure/ shape, modified to perform different functions called?

(a) Analogous organs
(b) Homologous organs
(c) Heterogeneous organs
(d) Homogeneous organs

Q92. Who launched Mata Amritanandamayi Math Project “Jeevamritham” for cleaning drinking water?

(a) Ram Nath Kovind
(b) Narendra Modi
(c) Nitin Gadkari
(d) Uma Bharti

Q93. What is the name of India’s fastest and first multi- petaflops super computer unveiled at Pune- based India Institute of Tropical Meteorology?

(a) Param
(b) Pratyush
(c) Prashant
(d) Paras

Q94. In August 2017, RBI announced to transfer approximately how much amount for the financial year 2016-17 as a dividend to the government?

(a) Rs. 30,659 crore
(b) Rs. 50,650 crore
(c) Rs. 60,659 crore
(d) Rs. 70,659 crore

Q95. ‘FRDI’ Bill, 2017 aims to protect the stability of the financial system. Once enacted, FRDI Bill 2017 will be replacing _____.

(a) Deposit insurance and credit guarantee corporation act, 1961
(b) Deposit guarantee corporation act, 1980
(c) Credit guarantee corporation act, 1990
(d) None of the above

Q96. A Sonar of a ship sends sounds waves of speed 1600m/s. These waves are reflected back by the ocean floor in 4 seconds. Find the depth (in m) of the ocean floor.

(a) 6400
(b) 3200
(c) 1600
(d) 4800

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Q97. If an object travels in a straight line and its velocity increases or decreases by equal amount in equal intervals of time, then the acceleration of the object is said to be _____.

(a) Linear
(b) Uniform
(c) Translational
(d) Non- uniform

Q98. Cold air is _____.

(a) Lighter than warm air hence cold air settles down
(b) Heavier than warm air hence cold air rises up
(c) Lighter than warm air hence cold air rises up
(d) Heavier than warm air hence cold air settles down

Q99. Which of the statements given below are correct?

a. Alexander Noren won the Golf 2017 BMW PGA Championship.
b. Canada hosted the Table Tennis 2017 ITTF Women's world cup.
c. In 2018 IPL auctions, Rajasthan Royals retained Steve Smith.

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

Q100. In Microsoft Word, _____ can be used to decide on the spacing between lines of a paragraph.

(a) Alignment
(b) Effects
(c) Indentation
(d) Line spacing

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) stereotype

The correct answer is 'stereotype'.

Key Points

• The correct spelling of the word is 'Stereotype'

• Stereotype is a widely held and simplified belief or generalization about a particular group of people or things. It often involves assuming characteristics or behaviors based on limited or superficial knowledge, leading to unfair or inaccurate judgments.

• Example: The stereotype that all engineers are introverted and socially awkward is not true, as there are many outgoing and sociable engineers.

• The spelling of "iliterrate" is also incorrect. The correct spelling is "Illiterate".

• Illiterate: Illiterate refers to a person who lacks the ability to read and write. It describes someone who has not acquired basic literacy skills, which are necessary for understanding written language and communicating effectively through writing.

• Example: The high illiteracy rate in the rural community made it challenging for residents to access important information or engage in written communication.

• Hence option 2 is correct.

Q2. Answer: (a) ACB

The correct answer is 'ACB'

Key Points

• Has get and fact that one has in this country make no grammatical or contextual sense. A has to be first. Rule out 3 and 4. A sentence will be incomplete if it ends with was hard to. C can't be last. Option 1. ACB is the correct answer.

So the correct sentence is- The fact that one has to be fiercely independent in this country was hard to get accustomed to.

Q3. Answer: (c) are coming

The correct answer is 'are coming'

Key Points

• According to grammar, whenever the subject is singular then, the verb should be a singular verb and when the subject is plural the verb should be plural.

• In the given sentence, 'New' is an adjective, and 'townships' is a noun that is followed by an adjective and it is in a plural form. Hence, use the verb in the plural.

• The use of 'providing several amenities' hints at the fact that the context is in the present continuous tense. Hence, 'are coming' should be the correct answer so as to draw parallelism with the latter part of the sentence.

So the correct sentence is- New townships are coming up with claims of providing several amenities to the people.

Q4. Answer: (c) have been advocating

The correct answer is 'have been advocating'

Key Points

• According to grammar, we use the present perfect continuous tense when something started in the past and is continuing at the present time. The present perfect continuous is formed using the construction has/have been + the present participle (root + -ing).

• 'For nearly half a century' shows that the completion of the time.

• The action that is 'advocating moderation' is still continuing in the present.

• Let's see an example-

• I have been reading War and Peace for a month now.

So the correct sentence is- I have been advocating moderation in daily physical exercise for nearly half a century in all my writings and books.

Q5. Answer: (c) Quaver

The correct answer is 'Quaver'

Key Points

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

• Quaver*→ means 'shaking voice'.*

• Example: Her voice quavered with nervousness as she delivered the speech.

• Permeate*→* spread through.

• Example: The smell of freshly baked cookies permeated the entire house.

• Rapacious*→* aggressively greedy or grasping.

• Example: The rapacious businessman took advantage of vulnerable customers.

• Grove*→* group of trees.

• Example: We enjoyed a picnic under the shade of a beautiful grove of trees.

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

Q6. Answer: (d) Revile

The correct answer is 'Revile'

Key Points

• The correct answer for the best substitute of the words/sentence "Criticize in an abusive or angrily insulting manner" is: Revile.

• The word "Revile" accurately captures the meaning of criticizing someone in an abusive or angrily insulting manner. It refers to expressing strong, harsh, and disrespectful criticism towards someone, often accompanied by insults or offensive language.

• For example: "He was reviled by the media for his controversial remarks."

• Now, let's examine the other options:

• Obeisance: This option does not serve as a substitute for the given words/sentence. "Obeisance" refers to a gesture or action that shows respect, deference, or submission. It does not convey the idea of criticizing someone in an abusive or angrily insulting manner.

• Example: The subjects paid obeisance to the king by bowing before him.

• Veneration: This option is not the best substitute for the given words/sentence. "Veneration" means showing deep respect, admiration, or reverence towards someone or something. It does not carry the connotation of criticizing in an abusive or angrily insulting manner.

• Example: The ancient temple is held in high veneration by the local community.

• Approbation: This option does not accurately substitute the given words/sentence. "Approbation" refers to approval, praise, or favorable opinion about someone or something. It does not convey the idea of criticizing in an abusive or angrily insulting manner.

• Example: The committee gave their approbation to the proposed project.

• To summarize, the best substitute for the words/sentence "Criticize in an abusive or angrily insulting manner" is "Revile," as it specifically captures the meaning of harshly and disrespectfully criticizing someone. The other options, "Obeisance," "Veneration," and "Approbation," do not accurately represent the intended meaning.

Q7. Answer: (c) Have an ulterior motive.

The correct answer is 'have an ulterior motive'

Key Points

• The meaning of the given idiom 'An axe to grind' → means 'they are doing something for selfish reasons.'

• Let's see an example-

• He seems like a decent bloke and I've got no axe to grind with him.

Additional Information

Ulterior*=>* existing beyond what is obvious or admitted; intentionally hidden.

Q8. Answer: (a) Alleviate someone's anxiety.

The correct answer is 'Alleviate someone's anxiety'

Key Points

• The meaning of the given idiom 'Ease somebody's mind' is 'to make someone feel less worried about something'

• Let's see an example-

• It would ease my mind to know you had arrived safely.

Q9. Answer: (a) along

The correct answer is 'along'

Key Points

• 'Along' is a preposition and an adverb that means 'in or into a company with others.'

• So according to the meaning, the correct answer is 'along'

Q10. Answer: (b) equally

The correct answer is 'Equally'

Key Points

• In the given blank, we need an adverb because there is a question of 'how it is true' the reply of 'how? when? where?' is always an adverb.

• So in the given options, there is only one adverb that is 'equally' that means 'in an equal manner'

Q11. Answer: (a) with

The correct answer is 'with'

Key Points

• 'Connection' is a noun that means 'relationship between two things, people, or groups.'

• 'With' is a preposition that means 'in relation to' hence use this preposition with the noun 'connection'

• Let's see an example-

• The police say he had no connection with the security forces.

So the correct answer is 'Option 1'

Q12. Answer: (b) on

The correct answer is 'on'

Key Points

• Before the blank, the word 'reasoned' is given that is an adjective, and the preposition 'on' means 'about, concerning, or having as a basis.

• So, always use the preposition 'on' with this adjective.

Q13. Answer: (b) not

The correct answer is 'not'

Key Points

• In the given sentence, we are trying to give a negative sense. So, we need to use the negative word here.

• According to grammar, 'not' is an adverb and we know that adverb is placed in-between the helping verb and the main verb.

So the correct answer is 'option 2'

Q14. Answer: (c) Hierarchy

The correct answer is 'Hierarchy'

Key Points

• The correct spelling of the given word is 'Hierarchy'

• The meaning of the given word is- A ranking system ordered according to status or authority.

Q15. Answer: (a) Meera said that she preferred singing to dancing.

The correct answer is 'Meera said that she preferred singing to dancing.'

Key Points

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

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

• Let's see an example-

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

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

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

• Let's see an example-

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

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

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

• Let's see an example-

• She said to me, "You are a brilliant student." (Direct Speech)

• She told me that I was a brilliant student. (Indirect Speech)

• She said to them, "You are brilliant students" (Direct speech)

• She told them that they are brilliant students. (Indirect speech)

• #The third person pronoun of the reported speech will not be changed in indirect speech.

• Let's see an example-

• He said, "She will buy a pen." (Direct speech.)

• He said that she would buy a pen. (Indirect speech.)

• In the given sentence, the verb 'prefer' is in the present simple tense hence, use the past simple in the indirect speech.

So the correct answer is 'option 1'

Q16. Answer: (b) The apples are gathered by him.

The correct answer is 'The apples are gathered by him.'

Key Points

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

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

• In the given sentence, the object is 'the apples', and the subject is 'He'

• Also, the verb of the sentence is in the present tense. So the passive of the sentence is going to be in the present tense.

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Additional Information

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

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

Q17. Answer: (d) PRQ

The correct answer is 'PRQ'

Key Points

• A sentence can't end with especially for → R can't be last. Rule out 3). Especially for are will make no sense. P can't follow R. Rule out 2). Option 4) PRQ is the correct answer.

Stem cells are being researched especially for forming blood vessels.

Q18. Answer: (a) Detestable

The correct answer is 'Detestable'

Key Points

• The correct answer for the word opposite in meaning to "Disarming" is: Detestable.

• The word "Disarming" refers to something that has the ability to remove suspicion, hostility, or fear, usually through charm, friendliness, or non-threatening behavior. It implies a sense of making others feel at ease, less guarded, or less defensive.

• For example, a disarming smile can make someone feel comfortable and open up in a conversation.

• On the other hand, "Detestable" is the opposite of "Disarming." It means deserving intense dislike, hatred, or strong aversion. When something or someone is described as detestable, it indicates that they are highly unpleasant, offensive, or repugnant.

• For instance, actions or behaviors that are considered morally repulsive or abhorrent can be described as detestable.

• Now, let's examine the other options:

• Charming: This option does not represent the opposite meaning of "Disarming" but rather a related concept. "Charming" refers to something or someone who has an attractive, pleasing, or charismatic quality. While charm can contribute to disarming someone, it is not the opposite of disarming.

• Silk: This option does not convey the opposite meaning of "Disarming." "Silk" refers to a type of fabric known for its softness and smoothness. It does not carry an opposite meaning in relation to "Disarming."

• Convincing: This option does not represent the opposite meaning of "Disarming" either. "Convincing" refers to something that is persuasive, compelling, or capable of causing someone to believe or be persuaded. It does not carry an opposite meaning to the concept of disarming.

• To summarize, the correct opposite for "Disarming" is "Detestable," as it denotes intense dislike or hatred. The other options, "Charming," "Silk," and "Convincing," do not represent the opposite meaning of "Disarming" but rather carry different meanings or related concepts.

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Q19. Answer: (d) Reasonable

The correct answer is 'Reasonable'

Key Points

The meaning of 'Preposterous' is ridiculous; illogical; unreasonable.

Hence, Option 4) Reasonable is an antonym.

• The meaning of the rest of the words is:

• Ridiculous→ illogical; unreasonable.

• Excessive→ more than it is necessary, normal, or desirable.

• Incredible→ Impossible to believe.

So the correct answer is Option 4.

Q20. Answer: (d) Rank

The correct answer is 'Rank'

Key Points

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

• Echelon→ means level or rank.

• Era→ means time; period.

• Echo→ means bouncing back of sound from the mountains etc.

• Rank→ means 'a position within a fixed hierarchy'

• So the correct answer is 'Option 4'

Q21. Answer: (c) Miser

The correct answer is 'Miser'

Key Points

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

• Niggard→ a mean or ungenerous person; a miser.

• Kind→ means 'a class or type of people'

• Unselfish→ means 'not selfish'

• Miser→ means 'a person who hoards wealth and spends very little.'

• So according to the meaning of the given words, the correct answer is 'Option 3'

Q22. Answer: (b) conceit

The correct answer is 'Conceit'.

Key Points

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

• Conceit → the state of being too proud of yourself and your actions

• Forfeit → lose or be deprived of (property or a right or privilege) as a penalty for wrongdoing.

• Surfeit → an overabundant supply; excess

• Receipt → a written acknowledgment of having received

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

Q23. Answer: (a) ago

The correct answer is 'ago'

Key Points

• According to grammar, 'ago' is an adverb of time and it is used with the past simple tense.

• Let's see an example-

• He was killed a few days ago in a skiing accident.

So the correct sentence is- My grandmother died five years ago.

Q24. Answer: (b) 2

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

Key Points

In part 2 of the sentence the usage of 'come with' is incorrect Instead, use 'come up with'

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• The phrasal verb 'come up with' means 'If you come up with a plan or idea, you think of it and suggest it.'

• Let's see an example-

• Several of the members have come up with suggestions of their own.

So the correct sentence is- *Seeing the increasing number of female f*oeticide the Prime Minister has come up with an initiative that is guaranteed to give protection to the girl child.

Q25. Answer: (b) 2

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

Key Points

• In part 2 of the sentence, the usage of 'absence' is incorrect Instead, use 'absent'

• According to grammar, 'absence' is a noun that means 'the state of being away from a place or person' and absent is an adjective that means 'not present'

• Let's see an example-

• He has been absent from his desk for two weeks.

So the correct sentence is- Dinesh has been absent from school since last month.

Q26. Answer: (a) Shoes : Cobbler

Just as clothes are repaired by Tailor, similarly shoes are repaired by cobbler.

Hence, ‘Shoes: cobbler’ is the correct answer.

Q27. Answer: (a) 93 : 99

46 + 6 = 52

Similarly,

93 + 6 = 99

Hence, 93 : 99 is the correct answer.

Q28. Answer: (a) HEL

The pattern followed here is:-

RAM is related to NWI as:-

Similarly,

LIP is related to HEL as:-

Hence, the correct answer is "HEL".

Q29. Answer: (d) Dog - Bark

The pattern followed here is:-

Animal - Famous for eating

1) Cow - Grass

Cow is famous for eating grass.

2) Monkey - Banana

Monkey is famous for eating banana.

3) Rabbit - Carrot

Rabbit is famous famous for eating carrot.

4) Dog - Bark

Dog is famous for eating meat, vegetables, fruits etc.

As can be clearly seen from the above all except Dog - Bark follows the pattern. So, Dog - Bark is the odd word pair.

Hence, the correct answer is "Dog - Bark".

Q30. Answer: (d) 17 - 279

11 × 11 = 121

13 × 13 = 169

19 × 19 = 361

17 × 17 = 289

Hence, 17 - 279 is the correct answer.

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Q31. Answer: (b) LJI

The logic used here,

→ 2 has been subtracted from each term to get the next term.

Let's check each option as per the logic,

1) FDB

→ F – 2 = D, D – 2 = B

2) LJI

→ L – 2 = J, J - 2 = H → (Doesn't satisfy the logic).

3) SQO

→ S – 2 = Q, Q – 2 = O

4) ZXV

→ Z – 2 = X, X – 2 = V

Clearly, LJI does not follow the same pattern.

Hence, the correct answer is " LJI ".

Q32. Answer: (b) Church

The dictionary arrangement would be:

1. Cheer
2. Choice
3. Choir
4. Chunk
5. Church

Hence, the correct answer is " Church ".

Q33. Answer: (c) 39

The logic followed here,

Hence, the correct answer is " 39 ".

Q34. Answer: (a) K

The logic followed here,

Hence, the correct answer is " K ".

Q35. Answer: (a) 48

1) In a row of boys, Amit is ranked 12^(th)from the top and Ratan is 15^(th) from the bottom.

(It implies that there are 11 people above Amit and 14 people below Ratan in rank).

2) They interchange their position. Ratan now becomes 37^(th) from the bottom.

(It implies that there are 36 people below Ratan and 11 above him (as he is on the same position where Amit was), which means there are 48 people (36 + 11 + 1) in total).

Hence, the correct answer is " 48 ".

Q36. Answer: (b) EXPECT

Given word → EXPENDITURE

1) PEN → EXPENDITURE → Can be formed (all the letters are present so, the word PEN can be formed)

2) EXPECT → EXPENDITURE → Cannot be formed (Letter 'C' is not present in the given word 'EXPENDITURE')

3) TURN → EXPENDITURE → Can be formed (all the letters are present so, the word TURN can be formed)

4) END → EXPENDITURE → Can be formed (all the letters are present so, the word END can be formed)

Hence, the correct answer is "EXPECT".

Q37. Answer: (b) KGDTW

The pattern followed here,

Similarly,

Hence, the correct answer is " KGDTW ".

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Q38. Answer: (b) 29

Given → 9 ÷ 16 - 25 + 10 × 20

Symbols	•	•	÷	×
Code	×	÷	•	•

After changing the symbol with their code.

New equation → 9 + 16 × 25 ÷ 10 - 20

Now, after applying BODMAS Rule and solving the new equation, we get:-

9 + 16 × 25 ÷ 10 – 20

9 + 16 × 2.5 – 20

9 + 40 – 20

49 – 20 = 29

Hence, the correct answer is "29".

Q39. Answer: (c) × and -

Given equation → 4 - 10 ÷ 5 × 4 + 12 = 16

Checking options one by one by interchanging signs

1) ÷ and -

After interchanging, new equation → 4 ÷ 10 - 5 × 4 + 12 = 16

By solving the equation using BODMAS Rule, we get:-

4 ÷ 10 - 5 × 4 + 12 = 16

0.4 - 5 × 4 + 12 = 16

0.4 - 20 + 12 = 16

12.4 - 20 = 16

-7.6 ≠ 16

Left hand side is not equal to right hand side

2) + and ÷

After interchanging, new equation → 4 - 10 + 5 × 4 ÷ 12 = 16

By solving the equation using BODMAS Rule, we get:-

4 - 10 + 5 × 4 ÷ 12 = 16

4 - 10 + 5 × 0.333 = 16

4 - 10 + 1.665 = 16

5.665 - 10 = 16

-4.335 ≠ 16

Left hand side is not equal to right hand side

3) × and -

After interchanging, new equation → 4 × 10 ÷ 5 - 4 + 12 = 16

By solving the equation using BODMAS Rule, we get:-

4 × 10 ÷ 5 - 4 + 12 = 16

4 × 2 - 4 + 12 = 16

8 - 4 + 12 = 16

20 - 4 = 16

16 = 16

Left hand side is equal to right hand side

4) - and +

After interchanging, new equation → 4 + 10 ÷ 5 × 4 - 12 = 16

By solving the equation using BODMAS Rule, we get:-

4 + 10 ÷ 5 × 4 - 12 = 16

4 + 2 × 4 - 12 = 16

4 + 8 - 12 = 16

12 -12 = 16

0 ≠ 16

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Left hand side is not equal to right hand side

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

Q40. Answer: (b) -10

1) 70!10 = (70 ÷ 10 x (-1)) = -7

2) 70!5 = (70 ÷ 5 × (-1)) = -14

3) 40!4 = (40 ÷ 4 × (-1)) = -10

Similarly,

20!2= (20 ÷ 2 × (-1)) = -10

Hence, the correct answer is " -10 ".

Q41. Answer: (b) ABABAbAB

The pattern followed here is:-

In the first term first letter is lowercase and in the second term second letter is lowercase and so on.

aBABABAB → AbABABAB → ABaBABAB → ABAbABAB → ABABaBAB

Hence, the correct answer is "ABABAbAB".

Q42. Answer: (c) 7 km West

1) A woman starts from her home and walks 2 km North.

2) Then she turns East and walks 9 km.

3) Then she turns south and walks 1 km.

4) Then she turns West and walks 2 km.

5) Then she turns to her left and walks 1 km to reach the well.

Here, we can see that Home is 7 km west from the well.

Hence, the correct answer is " 7 km West ".

Q43. Answer: (b) Only conclusion II follows

The least possible Venn diagram for the given statements is as shown below:-

I. Some cigarettes are tobacco → Doesn't follow (No direct relationship establish between Cigarettes and Tobacco)

II. No tobacco are cigarettes → Follows (No direct relationship establish between Cigarettes and Tobacco)

Hence, the correct answer is "only conclusion II follows".

Q44. Answer: (b) JC

Rectangle = Therapists.

Circle = floral designers

Triangle = Poets

Square = Football players

Hence, the correct answer is " JC ".

Q45. Answer: (a) LGP

The pattern followed here is:-

Hence, the correct answer is "LPG".

Q46. Answer: (b) 108

The pattern followed here,

Hence, the correct answer is " 108 ".

Q47. Answer: (b) (6, 18, 56)

The logic used here,

→ Second Number = (First Number × 3)

→ Third Number = (Second Number × 3)

Let's check each option as per the logic,

1) (3, 9, 27)

→ (3 × 3 = 9, 9 × 3 = 27)

2) (6, 18, 56)

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→ (6 × 3 = 18, 18 × 3 ≠ 56) → Doesn't satisfy the logic.

3) (7, 21, 63)

→ (7 × 3 = 21, 21 × 3 = 63)

4) (8, 24, 72)

→ (8 × 3 = 24, 24 × 3 = 72)

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

Hence, the correct answer is " (6, 18, 56) ".

Q48. Answer: (c) [figure]

The correct mirror image of the given figure when the mirror is held on the right side is as shown below:-

Hence, the correct answer is "Option 3".

Additional Information In the Mirror image left side and right side changed vice-versa where the top and bottom remain the same.

The reflection of an object into the water is its water image. It appears by inverting an object vertically i.e. upside down.

The water image of the figure looks like the mirror image of the figure in case the mirror is horizontally at the bottom of the figure.

The water image is just a reflection where the top and bottom parts of the images changed while the left and right sides of the image remain the same.

Q49. Answer: (d) [figure]

Given →

Unfolded cube

The opposite sides of the cube when the unfolded cube will be folded are:-

Checking option one by one:-

1) Cube in option figure (1) one can be formed as no two opposite faces of the cube are present adjacent to each other.

2) Cube in option figure (2) one can be formed as no two opposite faces of the cube are present adjacent to each other.

3) Cube in option figure (3) one can be formed as no two opposite faces of the cube are present adjacent to each other.

4) Cube in option figure (4) Cannot be formed as two opposite faces of the cube i.e.

and

must be opposite, but they are adjacent to each other.

Hence, the correct answer is "Option 4".

Q50. Answer: (d) 85, 58, 10, 13

The pattern followed here is:-

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

1) In 20,75,20,97

20 → B; 75 → Q; 20 → B; 97 → W (So, the word formed is 'BQBW')

2) In 44, 95, 32, 66

44 → I; 95 → R; 32 → C; 66 → P (So, the word formed is 'IRCP')

3) In 31, 87, 33, 65

31 → J; 87 → Q; 33 → K; 65 → Q (So, the word formed is 'JQKQ')

4) In 85, 58, 10, 13

85 → S; 58 → O; 10 → A; 13 → K (So, the word formed is 'SOAK')

Hence, the correct answer is "85, 58, 10, 13".

Q51. Answer: (a) 5/6,6/5

Given:

Let the rational number be x

$x + (1/x) = 61/30$

Calculation:

$\Rightarrow x + (1/x) = 61/30$

$\Rightarrow 30x^2 - 61x + 30 = 0$

$\Rightarrow 30x^2 - 25x - 36x + 30 = 0$

$\Rightarrow 5x(6x - 5) - 6(6x - 5) = 0$

$\Rightarrow (6x - 5)(5x - 6) = 0$

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=> x = 5/6, 6/5

Therefore The correct answer is 5/6, 6/5.

Q52. Answer: (c) 3

Given:

We have to find the unit digit of 1! + 2! + 3! + 4! + ... + 20!

Concept used:

5! = 1 × 2 × 3 × 4 × 5 will have 0 as its unit digit because of the presence of (2 × 5). Hence all factorials above it will have 0 as their unit digit.

Calculations:

=> 1! + 2! + 3! + 4! = 1 + 2 + 6 + 24 = 33

=> Unit digit of (1! + 2! + 3! + 4! + ... + 20!) = Unit digit of (1! + 2! + 3! + 4!) = 3

Therefore The correct answer is 3.

Q53. Answer: (d) 14

Given:

a + b = 8; ab = 4

Calculation:

=> a/b + b/a

=> $(a^2 + b^2)/ab$

=> $((a + b)^2 - 2ab)/ab$

=> $\{(8)^2 - 2 \times 4\}/4$

=> {64 - 8}/4

=> 56/4 = 14

Therefore The correct answer is 14.

Q54. Answer: (b) 208

Given:

=> x - y = 4; xy = 12

Formula used:

=> x3 - y3 = (x - y)(x2 + xy + y2)

=> (x + y)2 = (x - y)2 + 4xy

Calculation:

According to the question:

=> x - y = 4 ----(1)

=> $(x + y)^2 = (x - y)^2 + 4xy$

=> $(x + y)2 = 4^2 + 4 \times 12$

= (x + y)2 = 16 + 48 = 64

=> x + y = 8 ----(2)

Adding 1 and 2 equation we get,

=> 2x = 12

=> x = 6

By (2) we get,

=> y = 8 - x = 8 - 6 = 2

=> $x^3 - y^3 = (x - y)(x^2 + xy + y^2) = 4 \times \{(6)^2 + (12) + (2)^2\} = 4 \times 52 = 208$

Therefore The correct answer is 208.

Alternate MethodCalculation:

Put, x = 6 and y = 2,

$x^3 - y^3 = 6^3 - 2^3$

=> 216 - 8 = 208

Therefore The value is 8.

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Q55. Answer: (b) 10

Shortcut Trick

The length of tangents drawn from an external point to a circle are always equal.

From the given figure, AP = AR, BP = BQ, and CR = CQ.

Side AC = AR + CR = (AB − BP) + CQ.

Substituting the values: AC = (12 − 7) + 5 = 5 + 5 = 10 cm.

Therefore The correct answer is 10 cm.

Alternate Method

Given: Side AB = 12 cm, BQ = 7 cm, and CQ = 5 cm.

Formula Used: Tangents from the same external point to a circle are equal in length.

Let the points of tangency on sides AB, BC, and AC be P, Q, and R respectively.

=> BP = BQ = 7 cm (Tangents from point B)

=> AP = AB − BP = 12 − 7 = 5 cm

=> AR = AP = 5 cm (Tangents from point A)

=> CR = CQ = 5 cm (Tangents from point C)

=> AC = AR + CR = 5 + 5 = 10 cm

Therefore The correct answer is 10 cm.

Additional Information

Tangent Length Property

Two tangents drawn from an external point to a circle are always equal in length and subtend equal angles at the center.

Incircle of a Triangle

The circle inscribed in a triangle is called the incircle. Its radius r = Area ÷ semi-perimeter (s), where s = (a + b + c) ÷ 2.

Perimeter of Circumscribed Triangle

The perimeter of a triangle circumscribing a circle is equal to 2 × (AP + BQ + CR), where P, Q, R are the points of tangency.

Q56. Answer: (c) 1 : 3

Given:

AB || DE

=> AB = 3AD

=> AB : AD = 3 : 1

Calculation:

In triangle ABC and triangle ADE,

angle ABC = angle ADE (AB || DE; Corresponding angle)

angle ACB = angle AED (AB || DE; Corresponding angle)

triangle ABC ~ triangle ADE (By AA)

So, Ratio of corresponding sides are equal

=> DE/BC = AD/AB

=> DE/BC = AD/3AD

=> DE/BC = 1/3

Therefore The correct answer is DE : BC = 1 : 3.

Q57. Answer: (d) 140

Calculation:

=> A% of A = 196

=> $A^2/100 = 196$

=> $A^2 = 19600$

=> A = 140

Therefore The correct answer is 140.

Q58. Answer: (a) 2 : 5

Given:

a/b = c/d = e/f = 2/5

Calculation:

According to the question:
a/b = c/d = e/f = 2/5
=> a = (2/5)b
=> c = (2/5)d
=> e = (2/5)f
Now,
Therefore (5a + 3c + 2e) : (5b + 3d + 2f)
= {5(2b/5) + 3(2d/5) + 2(2f/5)} : (5b + 3d + 2f)
= 2(5b + 3d + 2f) : 5(5b + 3d + 2f)
= 2 : 5
Therefore The correct answer is 2 : 5.
Alternate MethodCalculation:
Put a = c = e = 2, b = d = f = 5
Now,
(5a + 3c + 2e) : (5b + 3d + 2f)
=> (5 × 2 + 3 × 2 + 2 × 2) : (5 × 5 + 3 × 5 + 2 × 5)
=> 2 × 10/5 × 5
=> 2/5 = 2 : 5
Therefore The correct answer is 2 : 5.

Q59. Answer: (b) 10500

Calculation:
Total investment value of C = (4000 × 3) + (3000 × 9) = 12000 + 27000 = Rs. 39000
Total investment value of D = (5000 × 6) + (6000 × 6) = 30000 + 36000 = Rs. 66000
Investment ratio = 39000 : 66000 = 13 : 22
As, profit ratio is same as investment ratio,
=> {13/ (13 + 22)} × total profit = Share of C in profit
=> (13/35) × total profit = 3900
=> Total profit = Rs. 10500
Therefore The correct answer is Rs. 10500.

Q60. Answer: (c) 24

Given:
The average height of 40 sticks is 154 cm
Calculation:
Average of 40 sticks = (Sum of Length of 40 sticks) /40
=> 154 = (sum of length 40 sticks) /40
=> Sum of length 40 sticks = 6160
Let x sticks are taken out
Average of x sticks = (sum of length of x stick) /x
=> 160 = (sum of length of x sticks) /x
=> Sum of length of x sticks = 160x
Now, Remaining sticks = 40 - x
Average of (40 - x) sticks = {sum of length of (40 - x) stick} /(40 - x)
=> 150 = {sum of length of (40 - x) sticks} /(40 - x)
=> Sum of length of (40 - x) sticks = 150(40 - x) = 6000 - 150x
According to question,
=> 160x + 6000 - 150x = 6160
=> 10x = 160
=> x = 16
Remaining sticks = 40 - x = 40 - 16 = 24
Therefore The correct answer is 24.

Alternate MethodCalculation:
Combined average = (n1x1 + n2x2)/(n1 + n2)
=> 154 = [160n + 150(40 - n)]/40
=> 6160 = 160n - 150n + 6000
=> 10n = 160
=> n = 16
Remaining sticks = 40 - n = 40 - 16 = 24
Therefore The correct answer is 24.

Q61. Answer: (a) 3740

Given:
S.I = Rs. 935
Calculation:
As, 12 months = 1 year
Let principle be Rs. P
(Principle × rate × time)/100 = Simple interest
=> (P × 25 × 1)/100 = 935
=> P/4 = 935
=> P = Rs. 3740
Therefore The correct answer is Rs. 3740.

Q62. Answer: (b) 3649

Shortcut Trick
Loss percentage is given as 11%, which means 11% of the Cost Price (CP) is the loss.
The difference between CP and Selling Price (SP) is always equal to the absolute Loss (or Profit).
Loss = 11% of CP = Rs. 451.
Therefore, 1% of CP = 451 ÷ 11 = Rs. 41.
Selling Price (SP) = 100% − 11% = 89% of CP.
SP = 89 × 41 = Rs. 3649.
Therefore The correct answer is Rs. 3649.
Alternate Method
Given: Difference between Cost Price (CP) and Selling Price (SP) = Rs. 451, and Loss Percentage = 11%.
Formula Used: Loss = CP − SP; SP = CP − Loss; Loss% = (Loss ÷ CP) × 100.
=> Loss = CP − SP = Rs. 451
=> Loss% = (Loss ÷ CP) × 100
=> 11 = (451 ÷ CP) × 100
=> CP = (451 × 100) ÷ 11
=> CP = 41 × 100 = Rs. 4100
=> SP = CP − Loss
=> SP = 4100 − 451
=> SP = Rs. 3649
Therefore The correct answer is Rs. 3649.
Additional Information
Basic Profit and Loss
Profit occurs when SP > CP (Profit = SP − CP). Loss occurs when CP > SP (Loss = CP − SP).
Percentage Calculations
Profit% or Loss% is always calculated on the Cost Price (CP) unless stated otherwise. Formula: (Value ÷ CP) × 100.
Direct SP Formula
For Loss: SP = CP × (100 − Loss%) ÷ 100. For Profit: SP = CP × (100 + Profit%) ÷ 100.
Marked Price Relation
Selling Price can also be calculated from Marked Price (MP): SP = MP × (100 − Discount%) ÷ 100.

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Q63. Answer: (a) 14.4

Calculation:

Let the cost price be Rs. 100

So, Marked price = 100 + 30% of 100 = Rs. 130

Discount = 12% of marked price = 12% of 130 = Rs. 15.6

Thus, Selling price = 130 - 15.6 = Rs. 114.4

Profit % = {(selling price - cost price)/cost price} × 100 = {(114.4 - 100)/100} × 100 = 14.4%

Therefore The correct answer is 14.4%.

Shortcut TrickCalculation:

Marked up(+ 30%)	**10**	**13**
Discount(- 12%)	25	22
Overall	250	286

Profit percent = {(286 -250)/250} × 100

=> {36/250} × 100

=> 14.4%

Therefore The correct answer is 14.4%.

Q64. Answer: (a) 5 + 2√5

Calculation:

1/(√25 - √24) - 1/(√24 - √23) + 1/(√23 - √22) - 1/(√22 - √21) + 1/(√21 - √20),

=> (25 - 24)/(√25 - √24) - (24 - 23)/(√24 - √23) + (23 - 22)/(√23 - √22) - (22 - 21)/(√22 - √21) + (21 - 20)/(√21 - √20),

((√25 - √24)(√25 + √24))/(√25 - √24) - ((√24 - √23)(√24 + √23))/(√24 - √23) + ((√23 - √22)(√23 + √22))/(√23 - √22) - ((√22 - √21)(√22 + √21))/(√22 - √21) + ((√21 - √20)(√21 + √20))/(√21 - √20)

=> (√25 + √24) - (√24 + √23) + (√23 + √22) - (√22 + √21) + (√21 + √20),

=> √25 + √20,

=> 5 + 2√5

Q65. Answer: (a) 60

Given:

X and Y together can do a piece of work in 30 days.

Y and Z together can do the work in 20 days

Calculation:

As X works for 15 days and Y works for 27 days.

So, X and Y work together for 15 days

Work done by X and Y in 15 days = 15 × (1/30) = 1/2

Now, Y work for 27 - 15 = 12 days more and Z works for 9 days.

So, Y and Z together work for 9 days

Work done by Y and Z together in 9 days = 9 × (1/20) = 9/20

Remaining work = 1 - (1/2) - (9/20) = 1/20

Now, Y alone works for = 12 - 9 = 3 days

Work rate of Y = (1/20) × (1/3) = 1/60

Therefore Y alone can finish the work in 60 days

Alternate MethodCalculation:

Let the total work be 60 units.

Efficiency of (x + y) = 60/30 = 2

Efficiency of (y + z) = 60/20 = 3

Let the efficiency of x = k, y = 2 - k, z = 1 + k

Total work = 60

=> 15 × 2 + 3(2 - k) + 9 × 3 = 60

=> 30 + 6 - 3k + 27 = 60

=> 3k = 3

=> k = 1
Efficiency of y = 2 - 1 = 1
Time required = 60/1 = 60
Therefore The required time is 60.

Q66. Answer: (a) 28.5

Given:
Length of train (L) = 220 m
Calculation:
Total distance = length of train + length of bridge = 220 + 440 = 660 m
Time = 33 second
So, Speed of train = Distance/time = 660/33 = 20 m/sec
Total distance to be covered = length of train + length of bridge = 220 + 350 = 570 m
Time taken to cross it = distance/speed = 570/20 = 28.5 sec
Therefore The correct answer is 28.5 sec.
Alternate MethodConcept used:
When speed is constant.
D1/T1 = D2/T2
Calculation:
D1/T1 = D2/T2
=> 660/33 = 570/t
=> t = 570/20
=> t = 28.5s
Therefore The required time is 28.5s.

Q67. Answer: (c) 2014

Calculation:
According to the graph in year 2013 and 2014 the number of deaths was less than that of the previous year
Therefore The correct option is 3.

Q68. Answer: (d) 6500

Calculation:
Number of deaths in 2012 = 8000
Number of deaths in 2014 = 1500
Required difference = 8000 - 1500 = 6500
Therefore The correct answer is 6500.

Q69. Answer: (c) 33.33

Calculation:
Number of deaths in 2013 = 6000
Number of deaths in 2016 = 9000
Required % = {(9000 - 6000)/9000} × 100 = 33.33%
Therefore The correct answer is 33.33%.

Q70. Answer: (a) 750

Calculation:
Number of deaths in year 2015 = 7500
Insurance on 1 death = Rs. 10 lakhs
Total insurance paid = 7500 × 10 = 75000 lakhs = 750 crore
Therefore The correct answer is 750 crore.

Q71. Answer: (a) 56.25

Given:
Perimeter of a square = 30 cm

Formula used:
Perimeter of a square = 4 × side
Calculation:
Let side of square be a cm
We know that,
=> 4a = Perimeter
=> 4a = 30
=> a = 15/2
Area = side²
=> (15/2)²
=> 225/4 = 56.25 cm²
Therefore The correct answer is 56.25 cm2.

Q72. Answer: (a) 10.5

Given:
Area of circle = 346.5 cm2
Calculation:
Let radius of circle be r cm
=> π × radius²= Area of circle
=> (22/7) × r² = Area of circle
=> (22/7) × r² = 346.5
=> r² = 110.25
=> r = 10.5 cm
Therefore The correct answer is 10.5 cm.

Q73. Answer: (d) 19404

Given:
Diameter (D) = 42 cm
Calculation:
Radius = Diameter/2 = 42/2 = 21 cm
Now,
Volume of hemisphere = (2/3) × π × (radius)³
=> (2/3) × (22/7) × (21)³ = 19404 cm³
Therefore The correct answer is 19404 cm3.

Q74. Answer: (c) (2 + 2√3)/√3

Given:
angle B = 90°; angle A = 60°
Calculation:
angle B = 90°, angle A = 60°
Now, by angle sum property,
=> angle A + angle B + angle C = 180°
=> angle C = 180° - (angle A + angle B)
=> 180° - (90° + 60°) = 30°
Now,
sec C + 2
=> sec 30° + 2
=> (2/√3) + 2 = (2 + 2√3)/√3
Therefore The correct answer is (2 + 2√3)/√3.

Q75. Answer: (b) 24

Given:
Cos A = 5/13; AB = 10 cm

Calculation:

Cos A = 5/13

=> AB/AC = 5/13

=> AB = 5k and AC = 13k

As, AB = 10 cm

=> 5k = 10

=> k = 2

=> AC = 13k = 13 × 2 = 26 cm

Now, by Pythagoras theorem in triangle ABC,

$AB^2 + BC^2 = AC^2$

=> $(10)^2 + BC^2 = (26)^2$

=> $100 + BC^2 = 676$

=> $BC^2 = 576$

=> BC = 24 cm

Therefore The correct answer is 24 cm.

Q76. Answer: (a) Unemployment during recessionary phase of trade cycle

The correct answer is Unemployment during the recessionary phase of the trade cycle

Key Points

• Unemployment occurs when a person who is actively searching for employment is unable to find work.

• It is often used as a measure of the health of the economy.

• Types of Unemployment

• Disguised Unemployment:

• The phenomenon when more people are employed than actually needed. Hence statement 1 is correct.

• Example: agricultural and the unorganized sectors of India.

• Seasonal Unemployment:

• Unemployment occurs during certain seasons of the year.

• Example: Agricultural laborers.

• Structural Unemployment:

• Unemployment arising from the mismatch between the jobs and the skills of the available workers in the market. Hence statement 2 is correct.

• Many people do not get jobs due to a lack of requisite skills and due to the poor educational level.

• Cyclical Unemployment:

• It is the result of the business cycle. Hence statement 3 is not correct.

• Unemployment rises during recessions and declines with economic growth.

• Technological Unemployment:

• It is the loss of jobs due to changes in technology.

• Frictional Unemployment:

• Frictional Unemployment is also known as Search Unemployment. Hence statement 4 is not correct.

• It refers to the time lag between the jobs when an individual is searching for a new job or is switching between the jobs.

• Vulnerable Employment:

• This means people are working informally without proper job contracts.

• These persons are deemed ‘unemployed’ since records of their work are never maintained.

Q77. Answer: (d) RK Shanmukham Chetty

Morarji Desai	**Morarji Desai was an Indian independence activist and served between 1977 and 1979 as the 4th Prime Minister of India and led the government formed by the Janata Party.**
John Mathai	John Mathai CIE was an economist who served as India's first Railway Minister and subsequently as India's Finance Minister, taking office shortly after the presentation of India's first Budget, in 1948.

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TT Krishnamachari	Tiruvellore Thattai Krishnamachari was the Indian Finance Minister from 1956– 1958 and from 1964-1966.
RK Shanmukham Chetty	Sir Ramasamy Chetty Kandasamy Shanmukham Chetty KCIE was an Indian lawyer, economist and politician who served as independent India's first finance minister from 1947 to 1949 and represented the first union budget of independent India.

Q78. Answer: (b) Daimabad

The correct answer is Daimabad.

Key Points

• Daimabad is an archaeological site on the left bank of the Pravara River, a tributary of the Godavari River in Srirampur taluka in the Ahmednagar (Ahilya Nagar) district of Maharashtra.

• This site was discovered by B. P Bopardikar in 1958.

• It has been excavated 3 instances up to now with the aid of using the Archaeological Survey of India teams.

• Discoveries at Daimabad recommend that the Late Harappan lifestyle prolonged into the Deccan Plateau in India.

• It is well-known for the healing of many bronze goods, a number of which had been motivated with the aid of using the Harappan lifestyle.

Additional Information

• Lothal:

• Excavated by S.R Rao in 1953.

• It was situated in Gujarat on the Bhogva river near the Gulf of Cambay.

• Important findings are the first manmade port, dockyard, rice husk, fire altars, chess playing.

• Dholavira:

• Located on the bank of Luni river in Rann of Kutch, Gujarat.

• Discovered by JP Joshi (1967-68).

• Important finding - Exclusive water management.

• Surkotada:

• Located between the rivers Sabarmati and the Bhogavo in Gujarat.

• Discovered by J.P. Joshi (1966).

• Important findings - Horse bone remains, declining Harappan phase.

Q79. Answer: (d) Karsandas Mulji

Karsandas Mujli published the newspaper ‘Satyprakash’ in Gujarati, the newspaper was received as a game changer against the various social evils like Sati Pratha and Child marriage.

Gangadhar Rao	**He was the Maharaja of Jhansi in northern India, a vassal of Maratha Empire. He was the son of Shiv Rao Bhau and a descendent of Raghunath Hari Newalkar.**
Vishnu Shastri	He was a Marathi writer, whose writings have had a decisive influence on modern Marathi prose style. He was the son of the writer and scholar Krushnashastri Chiplunkar.
Gopal Hari Deshmukh	He was an Indian activist, thinker, social reformer and writer from Maharashtra. His original surname was Shidhaye. Because of 'Vatan' that the family had received, the family was later called Deshmukh.
Karsandas Mulji	He was an Indian journalist, writer and social reformer from Gujarat. He was repudiated by his family because of his views on widow remarriage

Q80. Answer: (c) Mars

• Mars is called the red planet because it appears in the sky as a red star and also its surface is covered with fine sand and dust full of iron oxide.

• Mars is the fourth planet from the Sun and the second-smallest planet in the solar system after Mercury.

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Q81. Answer: (d) Bhutan

Bhutan, a Buddhist kingdom on the Himalayas' eastern edge, is known for its monasteries, fortresses (or dzongs) and dramatic landscapes that range from subtropical plains to steep mountains and valleys. It is the smallest country to have a terrestrial border with India.

Q82. Answer: (c) Nanded

Samadhi of Guru Gobid Singh is located in the city of Nanded in Maharashtra because it is considered that he attained martyrdom in the same place. There is a Gurudwara built in the city which also has the Samadhi and goes by the name 'Hazur Sahib'.

Q83. Answer: (b) World bank

The World Bank is an international financial institution that provides loans to countries of the world for capital projects and allowed India to construct the long stood up Hydroelectric project on Chenab river in Kishwar district of Jammu and Kashmir.

Q84. Answer: (b) Jyoti Prakash Nirala

The Correct Answer is Jyoti Prakash Nirala.

Key Points

• The Ashok Chakra for the year 2018 was awarded posthumously to Indian Air Force Garud Commando Corporal Jyoti Prakash Nirala.

• Corporal Nirala was killed after he shot down three terrorists in Jammu and Kashmir in 2017.

Important Points

• Ashok Chakra is India's highest peacetime military honour which is awarded for valour, courageous efforts, and self-sacrifice.

• The following categories of persons are eligible for the Ashoka Chakra:

• Men and women of all ranks of the Army, the Navy and the Air Force, any of the Reserve Forces, the Territorial Army, Militia, and any other lawfully constituted forces.

• Members of the Nursing Services of the Armed Forces.

• Civilian citizens of either sex in all walks of life and members of Police Forces including Central Para-Military Forces and Railway Protection Force.

Additional Information

• The order of precedence of gallantry awards is

• Param Vir Chakra

• Ashoka Chakra

• Mahavir Chakra

• Kirti Chakra

• Vir Chakra

• Shaurya Chakra

Q85. Answer: (d) Nepalese rupee

The correct answer is Nepalese rupee.

Key Points

• Kathmandu is the national capital of Nepal.

• Pushpa Kamal Dahal is the current PM of Nepal whereas Ram Chandra Poudel is the current President of the country.

• Nepal, a landlocked country in South Asia, shares its borders with five Indian states:

• Uttarakhand

• Uttar Pradesh

• Bihar

• West Bengal

• Sikkim

Q86. Answer: (a) Only I and II

• Acid rain results when sulfur dioxide (SO_2) and nitrogen oxides (NO_2) are emitted into the atmosphere

• Acid rain is a rain or any other form of precipitation that is unusually acidic, meaning that it has elevated levels of hydrogen ions. It can have harmful effects on plants, aquatic animals and infrastructure.

Q87. Answer: (b) 2 : 16

The atomic mass of Hydrogen is 1 u. The atomic mass of oxygen is 16u. Since, there are 2 atoms of hydrogen and 1 atom of oxygen in a water molecule, the ratio of their masses is 2:16 or 1:8.

Q88. Answer: (a) One

The correct answer is One.

Key Points

• Article 324(2):- The Election Commission shall consist of the Chief Election Commissioner and a such number of other Election Commissioners, if any, as the President may from time to time fix and the appointment of the Chief Election Commissioner and other Election Commissioners shall, subject to the provisions of any law made in that behalf by Parliament, be made by the President.

• There is one Chief Election Commissioner who heads the Election Commission of India.

• Along with Chief Election Commissioner, there are 2 other commissioners in the body.

• They all are appointed by the President of India.

• They are not eligible for reappointment.

• They have the same powers as the judges of the Supreme Court.

• It is a body constitutionally empowered to conduct free and fair elections to the national and state legislatures and of President and Vice-President.

Additional Information

• Article 324 of the Constitution deals with the Election Commissions.

• The tenure of Election Commissioners is 6 years or up to 65 years of age, whichever is earlier

Q89. Answer: (c) Attorney General of India

The correct answer is option 3, i.e. Attorney General of India.

• The Attorney General of India is the Indian government's chief legal adviser and its primary lawyer in the Supreme Court of India.

• He is appointed by the President of India under Article 76(1) of the Constitution and holds office during the pleasure of the President.

Q90. Answer: (b) Sphincter

A sphincter is a circular muscle that normally maintains constriction of a natural body passage or orifice and which relaxes -as required by normal physiological functioning. Sphincters are found in many animals.

Q91. Answer: (b) Homologous organs

The correct answer is Homologous organs.

Key Points

• A homologous organ, system, or body part that shares a common ancestry in multiple organisms.

• Homologous organs are described as the organs of various

animals with a similar structure, but with different functions.

Additional Information

• Analogous organs- Analogous organs, which have identical functions but distinct origins, are the opposite of homologous organs.

• The wings of insects, bats, and birds that developed independently in each lineage separately after diverging from an ancestor without wings will be an example of an analogous trait.

Q92. Answer: (a) Ram Nath Kovind

• President Ram Nath Kovind launched the project Jeevamritham in Amrithapuri in Kollam in Kerala.

• It was allotted Rs. 100 crore for the purpose of providing filtration system for cleaning drinking water to 5000 villages across India.

Q93. Answer: (b) Pratyush

The correct answer is Pratyush

Key Points

• Pratyush or Prathyush is a supercomputer established at the Indian Institute of Tropical Meteorology (IITM), Pune in India. As of January 2018, Pratyush is the fastest supercomputer in India with a maximum speed of 6.8 PetaFlops.

• The system was inaugurated by Dr. Harsh Vardhan, Union Minister for science and technology, on 8 January 2018.

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Q94. Answer: (a) Rs. 30,659 crore

The Reserve Bank of India is India's central banking institution, which controls the monetary policy of the Indian rupee. The Reserve Bank of India also acts as the investor of the government funds and announced Rs. 30,659 crore as dividend for financial year 2016-17.

Q95. Answer: (a) Deposit insurance and credit guarantee corporation act, 1961

Deposit Insurance and Credit Guarantee Corporation (DICGC) is a subsidiary of Reserve Bank of India. It was established on 15 July 1978 under Deposit Insurance and Credit Guarantee Corporation Act, 1961 for the purpose of providing insurance of deposits and guaranteeing of credit facilities.

Q96. Answer: (b) 3200

Sonar is a technique that uses sound propagation to navigate, communicate or detect. The sonar hydrophones may be towed behind the ship or submarine in order to reduce the effect of noise generated by the watercraft itself.

Given,

Speed = 1600 m/s

time = 4s

Distance = Speed × Time

= 1600 × 4 = 6400 m.

Now according to the question statement, These waves are reflected back by the ocean floor in 4 seconds. But this is the total distance traveled by sound. So the depth of the ocean floor is half of the total distance i.e 6400/2 = 3200m.

Q97. Answer: (b) Uniform

The correct answer is option 2 i.e. Uniform

• Uniform acceleration is a type of motion in which the velocity of an object changes by an equal amount in every equal time period.

• Uniform motion is defined as the motion of an object in which the object travels in a straight line and its velocity remains constant along that line as it covers equal distances in equal intervals of time, irrespective of the length of the time.

Q98. Answer: (d) Heavier than warm air hence cold air settles down

The absorbed energy makes the molecules in air move and expand, therefore decreasing the air density. The opposite is true for cold air. It is more dense because the molecules are closer together and they are closer together because the bonds are absorbing less energy and therefore do not move as much.

Q99. Answer: (d) A, b and c

Alexander Noren	**Alexander Norén is a Swedish professional golfer who currently plays on the PGA Tour and the European Tour.**
Table Tennis 2017 ITTF Women’s world cup	The 2017 ITTF Women's World Cup was a table tennis competition held in Markham, Ontario, in 2017. The first time that it had been staged in Canada. In the final, China's Zhu Yuling defeated fellow Chinese player LiuShiwen, 4–3, to win her first World Cup title.
Steve Smith	Steven Peter Devereux Smith is an Australian international cricketer and former captain of the Australian national team. As of June 2018, Smith is the top-ranked Test batsman in the world, according to the ICC Player Rankings.

Q100. Answer: (d) Line spacing

The amount of vertical space between successive lines of text is called the spacing between two lines. It is most prominently used in particular forms of citations and research papers.

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