SSC CHSL Previous Paper 58 (Held On: 27 March 2018 Shift 3) (Previous Year Paper)

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

Take this paper as a timed mock test

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

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ENGLISH LANGUAGE

Q1. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The Kamleshwar reservoir in the sanctuary (1)/ is a best place (2)/ to see the marsh crocodile. (3)/ No error (4)

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

Q2. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The people of Orleans, while (1)/ they first saw her in their (2)/ city, thought she was an angel. (3)/ No error (4)

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

Q3. Directions: Each of the following sentences in this section has a blank space and is followed by four choices. Select the most appropriate choice to fill in the blank and mark your response accordingly.

The sniper was able to _____ two rebels.

(a) Shoot of
(b) Hoot with
(c) Shot
(d) Shoot down

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.

Once upon a time there _____ a dragon named Erasmus.

(a) Live
(b) Lived
(c) Liven
(d) Living

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

Ebullient

(a) Sober
(b) Enthusiastic
(c) Unadoptable
(d) Weary

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

Superfluous

(a) Compulsory
(b) Extra
(c) Integrity
(d) Immoral

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

Angst

(a) Casualness
(b) Anxiety
(c) Insecurity
(d) Disturbed

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

Progress

(a) Gain
(b) March
(c) Retreat
(d) Rise

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

Of Homer's two

P : has always been more

Q : epic poems, the Odyssey

R : popular than the Iliad

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

Q10. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active voice.

They organised the fair in a local park.

(a) The fair was organise in a local park.
(b) The fair was organised in a local park by them.
(c) The fair is being organised in a local park.
(d) The fair would be organised in a local park

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.

Anjali said, "I eat two guavas."

(a) Anjali say she eat two guavas.
(b) Two guavas are eaten by Anjali.
(c) Anjali said that she ate two guavas.
(d) Anjali said she eat two guavas.

Q12. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Guardian
(b) Gardian

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(c) Guardiun
(d) Gaurdian

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.

Division of labor is the law in the organic world as in the industrial. Animals _____ the lowest type, such as the amoeba, do not have separate organs for respiration, digestion, assimilation, elimination, etc. But in the ____forms each organ not only has its own specific work, but even within the same organ each part has its own particular function assigned. ____ we have seen that the ____ parts of the neurone probably perform different functions, the cells generating energy and the fibers _____ it.

Q13. Animals _____the lowest type,

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

Q14. But in the _____ forms each organ

(a) High
(b) Higher
(c) Highest
(d) Height

Q15. function assigned. _____ we have

(a) Thus
(b) If
(c) Than
(d) Why

Q16. that the _____ parts of the neurone

(a) Twice
(b) Pair
(c) Together
(d) Two

Q17. and the fibers _____ it.

(a) Transmit
(b) Transmits
(c) Transmitted
(d) Transmitting

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

Last but not least

(a) The class failure usually surprises everybody with success in real life.
(b) The youngest child is the most mischievous.
(c) The last task is the most difficult of a big project.
(d) Last in order of mention or occurrence but not last in importance.

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

Go belly up

(a) Go bankrupt.
(b) Sleep after being very tired.
(c) Eat food and rest.

(d) Die unexpectedly.

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

Deprived of or lacking of something

(a) Bereft
(b) Halcyon
(c) Snug
(d) Opulent

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

A deity or spirit embodied in human form

(a) Imp
(b) Incarnate
(c) Spirit
(d) Ogre

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".

Our body's wisdom (know) what is best for us.

(a) Knows
(b) Knowing
(c) Known
(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".

The humanities and the arts (has been given) short shrift, in primary, secondary and tertiary education.

(a) Have been given
(b) Have being given
(c) Have been give
(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.

Without entirely

A-them that he would do the

B-dismissing their case, he assured

C-needful that night itself

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

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

(a) Disconcerrted
(b) Desconcerted
(c) Desconcerrted
(d) Disconcerted

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GENERAL INTELLIGENCE

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

Sand : Desert ? ? : ?

(a) Ocean : Water
(b) Pond : Water
(c) Eat : Smoke
(d) Water : Sea

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

33 : 38 ? ? : ?

(a) 17 : 24
(b) 12 : 18
(c) 10 : 20
(d) 13 : 18

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

ORS : NQR ? GHK : ?

(a) FGJ
(b) FIL
(c) HIL
(d) HIM

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

(a) Herbivorous - Horse
(b) Herbivorous - Zebra
(c) Carnivorous - Bear
(d) Herbivorous - Elephants

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 options.

(a) 15 - 12
(b) 21 - 18
(c) 25 - 22
(d) 27 - 22

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

(a) GIK
(b) JLP
(c) PRT
(d) QSU

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

1. Massive
2. Metal
3. Method
4. Measure
5. Match

(a) Massive
(b) Measure
(c) Method
(d) Match

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

26, 13.5, 14.5, 31, 128, ?

(a) 1032
(b) 1096
(c) 1164
(d) 844

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

K, P, U, Z, ?

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

Q35. In a row of boys, Rahul is 31^(st) from top and Vinod is 53^(rd) from the bottom. There are 22 boys between Vinod and Rahul. There are 15 girls in another row. How many minimum students are there?

(a) 65
(b) 72
(c) 75
(d) 80

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

Misinformative

(a) Form
(b) Motive
(c) Inform
(d) Many

Q37. In a certain code language, “FUMES” is written as “62113519” and “MONTE” is written as “131514205”. How is “CARLO” written in that code language?

(a) 31181215
(b) 4181256
(c) 4111185
(d) 21812165

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

10 ÷ 4 - 10 + 6 × 2 = ?

(a) 39
(b) 11
(c) 21
(d) 36

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

18 ÷ 2 × 4 + 10 - 2 = 25

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

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Q40. If 6 # 2 = 4, 2 # 6 = 4 and 14 # 12 = 13, then find the value of 4 # 24 = ?

(a) 8
(b) 14
(c) 20
(d) 18

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

CBABABABA, BCABABABA, BACBABABA, BABCABABA, BABACBABA, _____.

(a) BABABACBA
(b) CBABABABA
(c) BABABCABA
(d) BCABABABA

Q42. A woman leaves her hut and walks 3 km East, then she turns South and walks 2 km, then she turns West and walks 1.5 km, then she turns North and walks 3 km, then she turns to her left and walks 1.5 km to reach the market. Where is this market with respect to her hut?

(a) 5 km North
(b) 1 km North
(c) 1 km South
(d) 5 km South

Q43. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All cigarettes are tobacco.

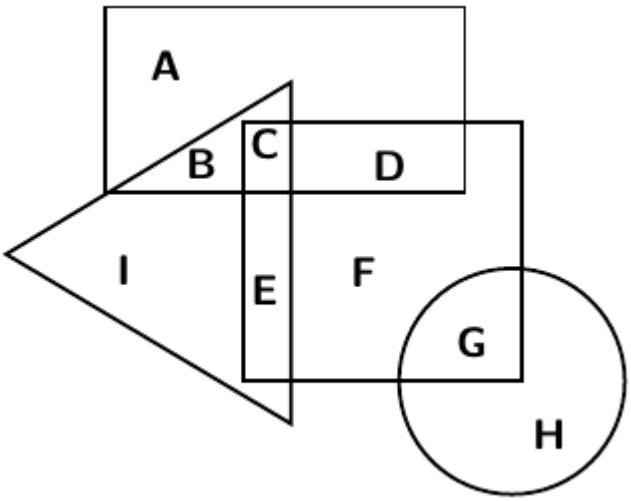
Statement II: No cigars are cigarettes.

Conclusion I: Some tobacco are cigars.

Conclusion II: All cigars are tobacco.

(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 Film directors, circle represents Bikers, triangle represents Riders and square represents Asians. Which set of letters represents Film directors who are Riders?



(a) BCD
(b) BC
(c) B
(d) C

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

CLH, GPL, KTP, OXT, ?

(a) SDY
(b) TDX
(c) SBX
(d) TCY

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

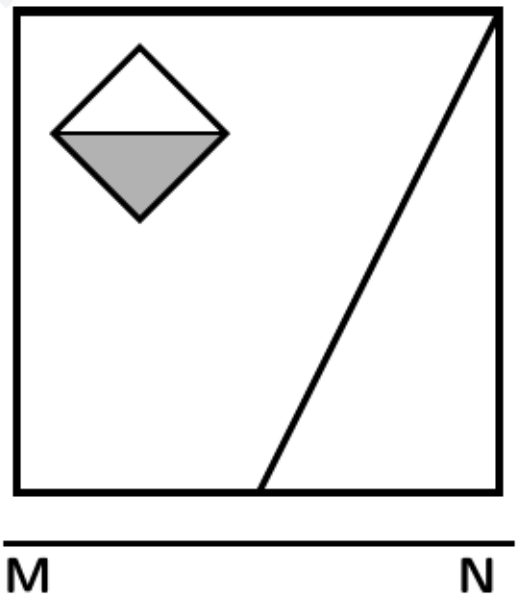
97, 91, 79, 61, 37, ?

(a) 9
(b) 7
(c) 1
(d) 5

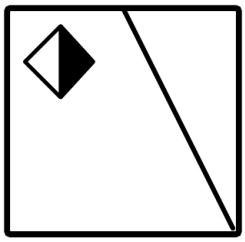
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (5, 14, 24)
(b) (9, 26, 44)
(c) (15, 44, 74)
(d) (8, 25, 39)

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

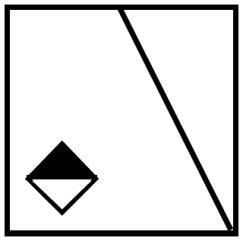


(a)

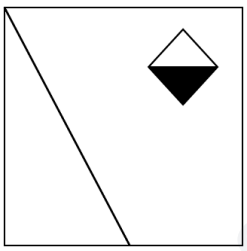


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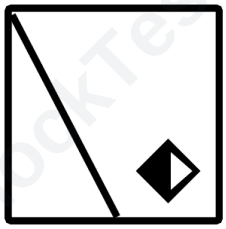
(b)



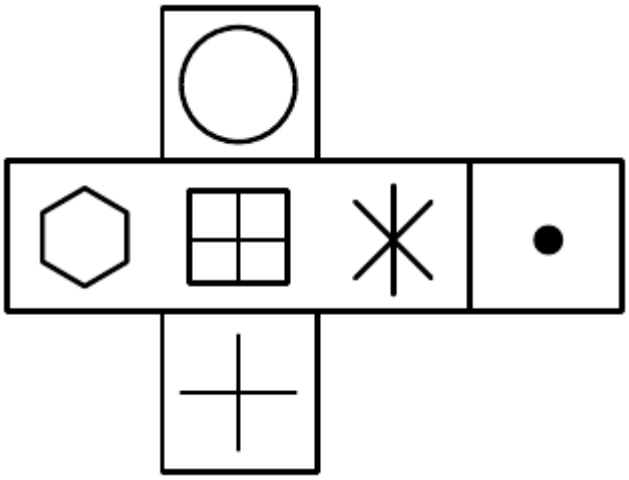
(c)



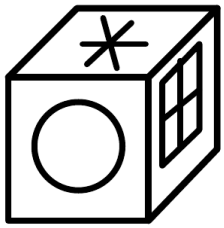
(d)



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

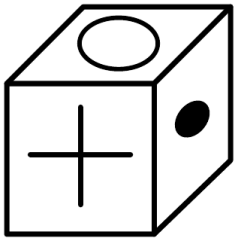


(a)

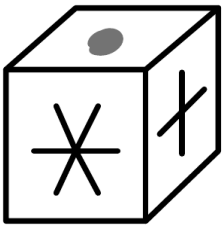


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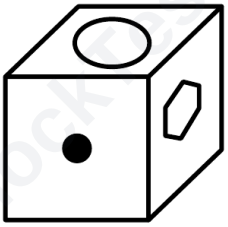
(b)



(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'C' can be represented by 21, 34 etc and 'T' can be represented by 57, 96 etc. Similarly, you have to identify the set for the word 'FANG'.

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

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

(a) 11, 30, 75, 43
(b) 41, 59, 10, 69
(c) 44, 89, 11, 68

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(d) 22, 67, 40, 78

QUANTITATIVE APTITUDE

Q51. Find the unit digit in 1! + 2! + 3! + 4! + ……. + 50!

(a) 1
(b) 3
(c) 5
(d) 8

Q52. What would be the remainder when 10^6 – 12 is divided by 9?

(a) 5
(b) 4
(c) 7
(d) 3

Q53. If 25^((x + y)) = 1 and 3^((4x + y)) = 1/27, then find the value of xy.

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

Q54. If a = -7, b = 5 and c = 2, then find the value of $a^3 + b^3 + c^3$.

(a) -210
(b) -180
(c) 180
(d) 210

Q55. What is the maximum number of common tangents which can be drawn to the circle, if the distance between their centers is equal to the sum of their radii?

(a) 0
(b) 1
(c) 3
(d) 4

Q56. If the two circles touch each other internally, then only _____ common tangent can be drawn to them.

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

Q57. Rajiv scored 20% marks in an exam and failed by 11 marks. If he scored 50% marks, then he gets 4 marks more than passing marks. What is the passing marks for the exam?

(a) 21
(b) 33
(c) 50
(d) 45

Q58. A bag contains 1 rupee, 50 paise and 25 paise coins. 1 rupee, 50 paise, and 25 paise coins are in the 5 : 3 : 1 ratio. If the total number of coins is 180, what will be the total value (in Rs) of all coins?

(a) 112
(b) 180
(c) 196
(d) 135

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Q59. Rahul adds 2 litres of alcohol in 6 litres of water and Dinesh adds 1 litre of alcohol in 9 litres of water. What is the ratio of the percentage of alcohol in the two mixtures?

(a) 7 : 4
(b) 2 : 1
(c) 5 : 2
(d) 8 : 3

Q60. If the difference between the average of d, e and e, h is 19, then what will be the difference between d and h?

(a) 38
(b) 22
(c) 9
(d) 19

Q61. The simple interest on a sum is 3/5 of the principal at the rate of 7.5% per annum. What is the time period (in years)?

(a) 7.5
(b) 8
(c) 10
(d) 12.5

Q62. If the cost price of an article is 35% of the selling price, then what is the profit percentage?

(a) 185.71
(b) 212.36
(c) 144.42
(d) 110.11

Q63. The marked price of a shirt is Rs. 10400. A shopkeeper allows a discount of 20% on shirt and gains 30%. If no discount is given, then what will be the profit percentage?

(a) 62.5
(b) 37.5
(c) 44
(d) 45

Q64. Which of the following is/are TRUE?

I. $(2\sqrt{26}) > (3\sqrt{35})$

II. $(3\sqrt{37}) > (4\sqrt{50})$

(a) Only I
(b) Only II
(c) Neither I nor II
(d) Both I and II

Q65. To complete a wall, X takes 20% more time than Y. If together they complete the wall in 30 days, then how much time (in days) will Y alone take to complete it?

(a) 55
(b) 52
(c) 44
(d) 58

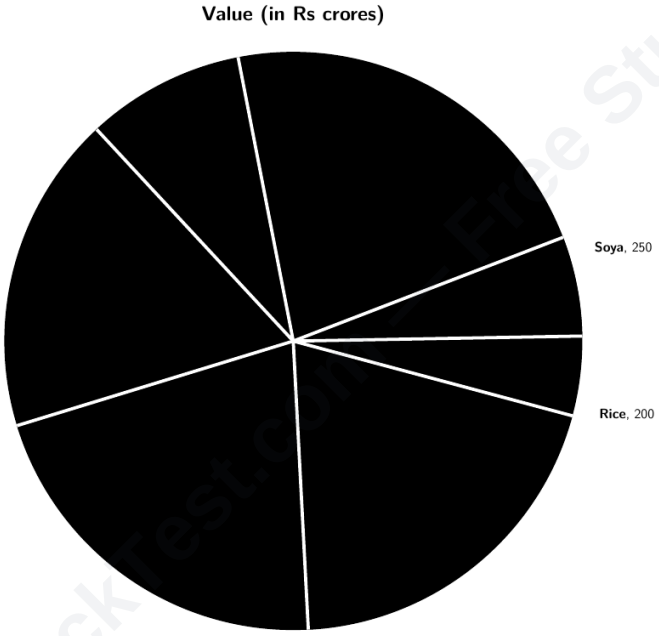
Q66. A car covers a distance of 20 km in 15 minutes. If its speed is decreased by 10 km/hr, what will be the time (in minutes) taken by it to cover the same distance?

(a) 150/11
(b) 120/7
(c) 130/11
(d) 150/13

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Directions

Direction: The pie chart shows the value of the total annual agricultural production of a country. Study the diagram and answer the following questions.



Q67. The value of annual production of which agricultural item is the most?

(a) Sugarcane
(b) Pulses
(c) Wheat
(d) Milk

Q68. What is the total value (in Rs. crores) of the annual agricultural production of the country?

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

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

(a) 90
(b) 70
(c) 100
(d) 80

Q70. If the value of wheat is Rs. 15,000 per tonne, then how many tonnes of wheat was produced?

(a) 60000
(b) 120000
(c) 600000
(d) 12000

Q71. The length and breadth of a rectangle are 12 cm and 5 cm respectively. Calculate its perimeter (in cm).

(a) 68
(b) 20
(c) 40
(d) 34

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Q72. What is the sum of the measures of all the interior angles of a regular polygon of 8 sides?

(a) 1080°
(b) 1260°
(c) 1440°
(d) 1800°

Q73. Find the volume (in cm^3) of a cuboid of length, breadth and height of 7.5 cm, 5 cm and 6 cm respectively.

(a) 195
(b) 180
(c) 225
(d) 173

Q74. ΔDEF is right angled at E. If angle D = 60°, then find the value of (cot F + 1/√3).

(a) 3√3/2
(b) 4/√3
(c) (2 + 2√3)/√3
(d) 7/2√3

Q75. ΔXYZ is right angled at Y. If cot X = 3/4, then what is the value of tan Z?

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

GENERAL AWARENESS

Q76. Which of the following is NOT a component of M-2?

(a) Small time deposits
(b) Money market mutual funds
(c) Stocks
(d) Checkable deposits

Q77. Which Five Year Plan had an objective of 'Rapid industrialization with particular emphasis on the development of basic and heavy industries'?

(a) First
(b) Second
(c) Third
(d) Fourth

Q78. Which of the following is NOT correctly matched?

(a) Khams in - Egypt
(b) Chinook - China
(c) Sirocco - Italy
(d) Ghibli - Libya

Q79. Which is the highest river dam in India?

(a) Hirakud Dam
(b) Bhakra dam
(c) Sardar Sarovar Dam
(d) Tehri Dam

Q80. Whom did the Mughals take the festival of Navaroz?

(a) Parsi
(b) Jewish
(c) Mangol

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(d) Turks

Q81. Which of the following rebellion occurred due to the removal of King Bharmal?

(a) Kutch Rebellion
(b) Surat Rebellion
(c) Khasi Rebellion
(d) Bhil Rebellion

Q82. Which number of the Sikh gurus was Guru Arjan Dev?

(a) Second
(b) Fifth
(c) Sixth
(d) Seventh

Q83. Which African country has been declared polio-free country by the World Health Organization (WHO) in December 2017?

(a) Angola
(b) Somalia
(c) Gabon
(d) South Africa

Q84. Who among the following is a winner of inaugural Times Power Women 2017 Award?

(a) Shabana Azmi
(b) Krishna Gandhi
(c) Hema Malini
(d) Shabnam Asthana

Q85. What is the national bird of Bangladesh?

(a) Magpie Robin
(b) Blue-throated barbet
(c) Green-billed malkoha
(d) Baya weaver

Q86. Which type of electromagnetic radiation having a wavelength in the range of 10^(-11) – 10^(-8) metre?

(a) Radio waves
(b) Ultraviolet waves
(c) Visible light
(d) X-rays

Q87. A device G.M counter is used for the measurement of which of the following?

(a) Speed of air
(b) Mass number
(c) Radioactivity
(d) Valence

Q88. Every village Panchayat is divided into smaller areas. What are these areas called?

(a) Gram
(b) Town
(c) Ward
(d) No option is correct.

Q89. _____ is a document that lays down the basic rules and regulation for people and the government in the country to follow.

(a) Rule book
(b) Regulation Book
(c) Constitution

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(d) Democratic Book

Q90. Which of the following pairs represent the CORRECT pair of reproductive parts of a flower?

(a) Sepals and Petals
(b) Sepals and Carpels
(c) Stamens and Carpels
(d) Petals and Stamens

Q91. The cells of sclerenchyma tissue have their walls thickened due to which chemical substance?

(a) Cellulose
(b) Lignin
(c) Pectin
(d) Hemicellulose

Q92. In December 2017, MSME Ministry launched a public procurement portal. What is the name of that portal?

(a) MSME Procure
(b) MSME Acquire
(c) MSME Sambandh
(d) MSME Saathi

Q93. Humankind's oldest mammal ancestor named Durlstotherim newmani has been discovered in _____.

(a) West Indies
(b) India
(c) United Kingdom
(d) China

Q94. In September 2017, India's foreign exchange reserves touched how much amount for the first time?

(a) $ 500 billion
(b) $ 400 billion
(c) $ 600 billion
(d) $ 700 billion

Q95. The Union Ministry of Housing and Urban Affairs launched the 'Protocol for Star Rating of Garbage-Free Cities' in which state?

(a) Maharashtra
(b) New Delhi
(c) Goa
(d) Karnataka

Q96. What is the power rating (in W) of a bulb if a current of 0.1A passes through on application of 250V of a potential difference across its terminals?

(a) 2500
(b) 50
(c) 25
(d) 1250

Q97. More density of the particles in the medium through which sound travels, creates more _____ and vice versa.

(a) Pressure
(b) Energy
(c) Power
(d) Force

Q98. The movement of air from one region to the other creates _____.

(a) Clouds
(b) Lightning
(c) Winds

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(d) Humidity

Q99. Which of the statements given below are correct?

A) Zhu Yuling won the Tennis 2017 Cincinnati Masters Women's Singles.

B) In 2017 Pro Kabaddi League, Selvamani K played for Jaipur Pink Panthers.

C) Grigor Dimitrov won the Tennis 2017 Cincinnati Masters Men's Singles.

(a) Both A and B
(b) Both B and C
(c) Both A and C
(d) A, B and C

Q100. In HTML, _____ creates a place wherein one line of information can be typed.

(a) TYPE = "TEXT"
(b) TYPE = "PASSWORD"
(c) TYPE = "RADIO"
(d) TYPE = "CHECKBOX"

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) 2

The correct answer is 2.

Key Points

• Part 2 of the given sentence has an error.
• Here we are comparing Kamleshwar reservoir (in the sanctuary) with other places.
• 'Best' the superlative degree of the adjective (good) is used in the sentence,
• Hence, we should use 'the' with the superlative degree of adjectives.

Correct sentence: 'The Kamleshwar reservoir in the sanctuary is the best place to see the marsh crocodile.'

Q2. Answer: (a) 1

The correct answer is 1.

Key Points

• Part 1 of the given sentence has an error.
• 'While' is used in a sentence when a moment is happening, during.
• Ex. He was watching me while running.
• 'When' at or on which (referring to a time or circumstance).
• Ex. I used to do that stuff when I was young.
• Hence 'when' should be used in place of 'while', because the people of Orleans saw her at a particular time.

Correct sentence: 'The people of Orleans, when they first saw her in their city, thought she was an angel.'

Q3. Answer: (d) Shoot down

The correct answer is Shoot down.

Key Points

• Shoot down is a phrasal verb of Shoot which means to kill or wound someone by shooting them, especially in a ruthless way.
• Ex. Police had to shoot him down, because of the threat he posed.
• Shot - The firing of a gun or cannon.
• Ex. Anup killed him with a single shot
• Shoot of is not a word.
• Hoot with is not a word,
• Hoot - to shout or laugh usually derisively
• Ex. The audience broke into hoots of laughter
• Hence, 'shoot down' should be used in the given space.

Correct sentence: 'The sniper was able to shoot down two rebels.'

Q4. Answer: (b) Lived

The solution is in Hindi. Read it online.

Q5. Answer: (b) Enthusiastic

The correct answer is Enthusiastic.

Key Points

• Ebullient - Cheerful and full of energy.
• Synonyms - exuberant, buoyant cheerful, joyful
• Enthusiastic - eager; lively
• From the meaning given above, we can say that ebullient means lively.
• Sober - serious, sensible, not drunk.
• Ex. A sober way of thinking.
• Unadoptable - not capable of being adopted,
• Adopt - accept, take care of.
• Ex. That old dog was unadoptable.
• Weary - tired, exhausted
• Ex. He looked weary

Q6. Answer: (b) Extra

The correct answer is Extra.

Key Points

• Superfluous - Unnecessary, surplus; excess.
• Ex. You should avoid asking for superfluous information
• Thus, 'Extra' is the right answer.
• Compulsory - Obliagtory
• Ex. Yes, the certificate is compulsory.
• Integrity - moral uprightness
• Ex. He is a man of integrity
• Immoral - not conforming to accepted standards of morality, Moral- concerned with right or wrong principle.
• Ex. Her act was immoral in nature.

Q7. Answer: (a) Casualness

The correct answer is Casualness.

Key Points

• Angst - A feeling of deep anxiety or dread.
• Synonyms - anxiety, fear, worry, insecure.
• Ex. E*xam causes me angst.*
• Casual - Relaxed and unconcerned. Casualness- being casual.

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• Synonyms - friendly, natural, informal, relaxed.
• Ex. How do you maintain such casualness?
• Hence, opposite of 'Angst' will be 'Casualness'.
• 'Anxiety', 'insecurity' and 'disturbed' are the synonyms of 'Angst'.

Q8. Answer: (c) Retreat

The correct answer is Retreat.

Key Points

• Progress - onward, the forward movement towards a destination.
• Synonyms - Development, advance, progression.
• Ex. The road work is in progress.
• Retreat - Move back, withdraw.
• Ex. you got to retreat the force.
• Hence, opposite of 'progress' will be 'retreat'.
• 'Gain', 'march' and 'rise' are the synonyms of 'progress'.

Q9. Answer: (d) QPR

The correct answer is QPR.

Key Points

• 'Two' quantity must be followed by a noun. Only Q qualifies (epic poems) as the next part of the sentence.
• As the sentence tries to compare the epic poems, more (has always been more) is followed by than (popular than the Iliad).
• Hence the correct order is QPR.

Correct sentence: 'Of Homer's two epic poems, the Odyssey has always been more popular than the Iliad.'

Q10. Answer: (b) The fair was organised in a local park by them.

They => by them in passive voice. Thus, Option 2) The fair was organised in a local park by them is the correct answer.

Q11. Answer: (c) Anjali said that she ate two guavas.

I eat = simple present tense. Thus, the reported speech will be in simple past tense i.e. she ate. Option 3) Anjali said that she ate two guavas is the correct answer.

Q12. Answer: (a) Guardian

The correct answer is Guardian.

Key Points

• The correct spelling is G-U-A-R-D-I-A-N.
• Guardian - a person who guards, protects, or preserves.
• Ex. He is my Guardian.

Q13. Answer: (c) Of

The correct answer is of.

Key Points

• Animals belong to the lowest type or are related to it.
• 'Of' is used to express the relationship between a part and a whole.
• Hence, 'of' should be used in the given space.

Additional Information

Usage of other prepositions:

• From - Indicating the point in time at which a particular process, event, or activity starts.
• For - Intended to reach; directed or belonging.
• At - Used to indicate a point or place occupied in space); in, on, or near

Q14. Answer: (b) Higher

The correct answer is Higher.

Key Points

• Comparative adjectives are used to compare differences between the two objects they modify (larger, smaller, faster, higher). They are used in sentences where two nouns are compared.

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• Hence, 'Higher' should be used in the given space, as the author is comparing animals of different forms.

Additional Information

• Superlative adjectives are used to describe an object which is at the upper or lower limit of a quality (the tallest, the smallest, the fastest, the highest).

• They are used in sentences where a subject is compared to a group of objects.

Q15. Answer: (a) Thus

The correct answer is Thus.

Key Points

• The current statement different parts of... different functions results from the previous statement each part has its own....

• The next sentence is the result of previous sentence.

• Option 1) Thus (as a result or consequence of this; therefore) is the correct answer.

Q16. Answer: (d) Two

The correct answer is Two.

Key Points

• The given space trying to convey the number (of parts of neurone) which denotes the different functions.

• Hence option 4 is the correct answer.

• Other options are either make no grammatical sense or not suitable for the current context.

Q17. Answer: (d) Transmitting

The correct answer is Transmitting.

Key Points

• And is used to mention two similar things together. Generating energy and.. Thus, the second part must be similar hence,Transmitting should be used in the given space.

• Hence option 4 is the correct answer.

• Other options are either make no grammatical sense or not suitable for the current context.

Q18. Answer: (d) Last in order of mention or occurrence but not last in importance.

The correct answer is Last in order of mention or occurrence but not last in importance.

Key Points

• Last but not least - Last in order of mention or occurrence but not last in importance.

• Ex. Himesh was last but not least in his competency.

Q19. Answer: (a) Go bankrupt.

The correct answer is Go bankrupt.

Key Points

• Go belly up means fail to meet financial needs (usually referred to companies), to collapse, to fall apart.

• Ex. The business went belly up after only seven months.

• Go bankrupt is the exact meaning of failing to meet financial needs.

Q20. Answer: (a) Bereft

The correct answer is Bereft.

Key Points

• Bereft means lacking something.

• Ex. The room was stark and bereft of colour

• Halcyon - denoting a period of time in the past that was idyllically happy and peaceful.

• Snug - comfortable, warm, and cosy; well protected from the weather or cold.

• Opulent - wealthy.

• Hence option 1 is the correct answer.

Q21. Answer: (b) Incarnate

The correct answer is Incarnate.

Key Points

• Incarnate - (especially of a deity or spirit) embodied in flesh; in human form.

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• Ex. One survivor described his torturers as devils incarnate.
• Imp = a small, mischievous devil or sprite (elf or fairy).
• Ogre = a man-eating giant; also - a cruel person.
• Spirit - the nonphysical part of a person which is the seat of emotions and character; the soul.
• Hence option 2 is the correct answer.

Q22. Answer: (a) Knows

The correct answer is knows.

Key Points

• The sentence is in the present tense (what is).
• Even if you are not convinced by this, always remember that universal truths are generally stated in the simple present tense.
• Wisdom is singular, hence Knows is the correct answer.

Q23. Answer: (a) Have been given

The correct answer is Have been given.

Key Points

• The humanities and the arts use have as both subjects are being considered, it is plural in nature.
• The given sentence is in the present perfect tense.
• Sub + Have/Has + (Verb 3rd) + object, formula should be used.
• Rule out 4). 2) and 3) are grammatically incorrect phrases. Option 1) Have been given is the correct answer.

Q24. Answer: (b) BAC

The correct answer is BAC.

Key Points

• Entirely - fully. It is an adverb and therefore, must be followed by a verb. Only B (dismissing) qualifies this criterion. B is first.
• Part B is followed by A as the person is assuring others (them) should be followed.
• Statement C will be the last part.
• Thus, Option 2) BAC is the correct answer.

Correct sentence: Without entirely dismissing their case, he assured them that he would do the needful that night itself.

Q25. Answer: (d) Disconcerted

The correct answer is Disconcerted.

Key Points

• The correct spelling is D-I-S-C-O-N-C-E-R-T-E-D.
• Disconcerted means unsettled; disturbed.
• Ex. Anil looked disconcerted due to yesterday's tragedy.

Q26. Answer: (d) Water : Sea

Here, Pattern is such that second word is a place or area which is fully surrounded by the first word i.e.

Sand : Desert → Desert is a place which is fully surrounded by sand.

Let’s check all the options.

Ocean : Water → Here water is not fully surrounded by ocean.

Pond : Water → Here water is not fully surrounded by pond.

Eat : Smoke → Here smoke is not fully surrounded by eat.

Water : Sea → Here sea is a place which is fully surrounded by water.

Hence, Water : Sea is the correct alternative.

Q27. Answer: (d) 13 : 18

Here pattern is such that 2^(nd) number is 5 more than the 1^(st) number i.e.

33 : 38 → 33 + 5 = 38.

Let’s check all the options

17 : 24 → 17 + 5 = 22 ≠ 24.

12 : 18 → 12 + 5 = 17 ≠ 18.

10 : 20 → 10 + 5 = 15 ≠ 20

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13 : 18 → 13 + 5 = 18 = 18

Thus, 13 : 18 is the correct alternative.

Q28. Answer: (a) FGJ

The pattern here is as follows,

Therefore, FGJ is the correct alternative.

Q29. Answer: (c) Carnivorous - Bear

In all of the above pair clearly Carnivorous - Bear is the odd one because in all the above options the animals are vegetarian i.e. herbivorous animals while bear is the only carnivorous i.e. non-vegetarian

Thus, Carnivorous - Bear is the odd pair.

Q30. Answer: (d) 27 - 22

Out of the given options, 27 - 22 is odd one because in all other options 2^(nd) term is 3 less than the 1^(st) term i.e.

15 - 12 → 15 - 3 = 12

21 - 18 → 21 - 3 = 18

25 - 22 → 25 - 3 = 22

But in 27 - 22 → 27 - 3 = 24 which is not equal to 22.

Thus, 27 - 22 is odd one.

Q31. Answer: (b) JLP

Here, it follows a pattern of +2 between two consecutive characters as shown below:

Hence, JLP is the odd one.

Q32. Answer: (b) Measure

The dictionary sequence is:

Massive → Match → Measure → Metal → Method.

Thus, Measure will come at THIRD position.

Q33. Answer: (a) 1032

The relation between the numbers is as follows,

26 × 0.5 + 0.5 = 13.5

13.5 × 1 + 1 = 13.5 + 1 = 14.5

14.5 × 2 + 2 = 29 + 2 = 31

31 × 4 + 4 = 124 + 4 = 128

128 × 8 + 8 = 1024 + 8 = 1032

Hence, the next number is 1032.

Q34. Answer: (c) E

The pattern is as follows,

Hence, the next term is E.

Q35. Answer: (c) 75

In a row of boys, Rahul is 31^(st) from top and Vinod is 53^(rd) from the bottom and there are 22 boys between Vinod and Rahul. So, there are two possible arrangements which are shown in the diagram below:

We have to find the minimum students. So, Case I is eliminated. We have case II as the valid case.

Now there are 30 boys above Rahul out of which 22 are those who are between Rahul and Vinod and 1 is Vinod himself. Hence, boys above Vinod = 30 - 23 = 7.

Again there are 52 boys behind Vinod out of which 22 are those who are between Rahul and Vinod and 1 is Rahul himself. Hence, boys behind Rahul = 52 - 23 = 29.

So, minimum number of boys = 29 + 22 + 7 + 2 = 60

Number of girls = 15

Hence, Minimum number of students = 60 + 15 = 75.

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Q36. Answer: (d) Many

Let's check each option,

1) FORM → can be formed from MISINFORMATIVE.

2) MOTIVE → can be formed from MISINFORMATIVE.

3) INFORM → can be formed from MISINFORMATIVE.

4) MANY → cannot be formed because there is no 'Y' in MISINFORMATIVE.

Hence, MANY can't be formed from word MISINFORMATIVE.

Q37. Answer: (a) 31181215

The pattern here is each letter of the given two words is coded with a number which is its place value in English alphabet as shown below

Hence the required conversion is,

Hence, 31181215 is the correct alternative.

Q38. Answer: (d) 36

The given equation is: 10 ÷ 4 - 10 + 6 × 2 = ?

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

10 ÷ 4 - 10 + 6 × 2 →

10 - 4 + 10 × 6 ÷ 2

= 10 - 4 + 10 × 3

= 10 - 4 + 30

= 40 - 4

= 36

Hence, 36 is the correct alternative.

Q39. Answer: (d) × and -

The given equation is: 18 ÷ 2 × 4 + 10 - 2 = 25

Let's check each option,

1) ÷ and - → 18 - 2 × 4 + 10 ÷ 2 = 15 ≠ 25

2) + and ÷ → 18 + 2 × 4 ÷ 10 - 2 = 16.8 ≠ 25

3) - and + → 18 ÷ 2 × 4 - 10 + 2 = 28 ≠ 25

4) × and - → 18 ÷ 2 - 4 + 10 × 2 = 25 = 25

Hence, by interchanging × and - the equation will be correct.

Q40. Answer: (b) 14

The pattern here is as follows, two numbers are given separated by '#'. We get the answer by adding the two numbers and dividing it by 2 to get the answer.

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

A # B = (A + B) ÷ 2 i.e.

6 # 2 = (6 + 2) ÷ 2 = 8 ÷ 2 = 4

2 # 6 = (2 + 6) ÷ 2 = 8 ÷ 2 = 4

14 # 12 = (14 + 12) ÷ 2 = 26 ÷ 2 = 13

Similarly, 4 # 24 = (4 + 24) ÷ 2 = 28 ÷ 2 = 14.

Hence, 14 is the correct alternative.

Q41. Answer: (c) BABABCABA

The pattern here is the letter 'C' is interchanging its position with the letter on its immediate right in every step i.e.

CBABABABA, BCABABABA, BACBABABA, BABCABABA, BABACBABA, BABABCABA.

Hence, BABABCABA is the correct alternative.

Q42. Answer: (b) 1 km North

The diagram below shows the route taken by the woman,

Clearly, we can see that the market is 3 - 2 = 1 km in North direction from her hut.

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

Consider the following least possible Venn diagram,

Conclusions:

I. Some tobacco are cigars → False (It is possible but not definite hence false).

II. All cigars are tobacco → False (It is possible but not definite hence false).

Hence, neither conclusion I nor conclusion II follows.

Q44. Answer: (b) BC

Here, rectangle represents Film directors, circle represents Bikers, triangle represents Riders and square represents Asians.

Clearly, Film directors who are Riders is represented by the intersection of rectangle and triangle i.e. BC.

Hence, BC is the correct alternative.

Q45. Answer: (c) SBX

The pattern is as follows,

Hence, the next term is SBX.

Q46. Answer: (b) 7

The relation between the numbers is as follows,

97 - (6 × 1) = 97 - 6 = 91

91 - (6 × 2) = 91 - 12 = 79

79 - (6 × 3) = 79 - 18 = 61

61 - (6 × 4) = 61 - 24 = 37

37 - (6 × 5) = 37 - 30 = 7

Hence, the next number is 7.

Q47. Answer: (d) (8, 25, 39)

Out of the given options, (8, 25, 39) is odd one because in all other options 2^(nd) number is one less than thrice the 1^(st) number and 3^(rd)number is one less than five times the 1^(st) number i.e.

(5, 14, 24) → 5 × 3 - 1 = 14 and 5 × 5 - 1 = 24.

(9, 26, 44) → 9 × 3 - 1 = 26 and 9 × 5 - 1 = 44.

(15, 44, 74) → 15 × 3 - 1 = 44 and 15 × 5 - 1 = 74.

But in (8, 25, 39) → 8 × 3 - 1 = 23 which is not equal to 25 and 8 × 5 - 1 = 39.

Thus, (8, 25, 39) is odd one.

Q48. Answer: (b) [figure]

The mirror image of the question will be:

Hence, we can say that option 2 is the correct mirror image of the given question.

Q49. Answer: (b) [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 2 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 2.

Hence, Option 2 is the correct alternative.

Q50. Answer: (a) 11, 30, 75, 43

Let’s check all the options,

1) 11, 30, 75, 43 → FANG

2) 41, 59, 10, 69 → IXCX

3) 44, 89, 11, 68 → IYFW

4) 22, 67, 40, 78 → LPMY

Thus, the correct option is 11, 30, 75, 43.

Q51. Answer: (b) 3

Computing the factorials,

=> 1! = 1

=> 2! = 1 × 2 = 2

=> 3! = 1 × 2 × 3 = 6

=> 4! = 1 × 2 × 3 × 4 = 24

=> 5! = 1 × 2 × 3 × 4 × 5 = 120

As we can notice that the unit digit of 5! Is 0, hence, the unit digit of 6!, 7!, …, 50! will be zero

Unit's digit of (1! + 2! + 3! + 4! + ……. + 50!)

=> Unit's digit of (1! + 2! + 3! + 4!)

=> Unit's digit of (1 + 2 + 6 + 24)

Therefore Unit's digit of (33) = 3

Alternate Method 1! = 1

2! = 2

3! = 6

4! = 24

5! = 120

Therefore Unit digit = 1+ 2+ 6 + 4 + 0 = 13 = 3

Q52. Answer: (c) 7

Calculation:

All the digits of (10^6 – 12) are 9, except the last two digits

The last two digits of (10^6 – 12) = 100 – 12 = 88

When 88 is divided by 9, the remainder is 7

Therefore The remainder when (10^6 – 12) is divided by 9 is 7

Q53. Answer: (b) -1

Laws of Indices:

1. a^m × a^n= a^({m + n})

2. a^m÷ a^n= a^({m - n})

3. (a^m)^n= a^(mn)

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

5. (a)^(m/n) = $\sqrt[n]{a^m}$

6. (a)^0= 1

Given,

=> 25^(x + y) = 1

=> 25^(x + y) = 25^0

=> x + y = 0

=> y = – x ----(1)

Also,

=> 3^(4x + y) = 1/27

=> 3^(4x + y) = 1/3^3

=> 3^(4x + y) = 3^(-3)

=> 4x + y = –3

Substituting from (1),

=> 4x – x = –3

=> x = –3/3 = –1

=> y = –(–1) = 1

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Therefore xy = 1(–1) = –1

Q54. Answer: (a) -210

Given:

a + b + c = -7 + 5 + 2 = 0

Concept used:

As we know, $(a^3 + b^3 + c^3 – 3abc) = (a + b + c)(a^2 + b^2 + c^2 – ab – bc – ca)$

Calculation:

If (a + b + c) = 0, then $a^3 + b^3 + c^3 = 3$ abc

Therefore $a^3 + b^3 + c^3 = 3(-7)(5)(2) = -210$

Q55. Answer: (c) 3

When the distance between the circles is equal to the sum of their radii, it means that the two circle touch each other externally, as shown below

Therefore A maximum of 3 common tangents can be drawn to the circles

Q56. Answer: (b) 1

When two circles touch each other internally, only one common tangent can be drawn to them, as shown below

Q57. Answer: (a) 21

Shortcut Trick

Difference in percentages = 50% − 20% = 30%

Difference in marks = 4 − (−11) = 15 marks

30% = 15 marks => 1% = 0.5 marks

Passing marks = (20% of Total Marks) + 11 = (20 × 0.5) + 11 = 21 marks

Therefore The correct answer is 21.

Alternate Method

Given:

Marks scored at 20% = Passing Marks − 11

Marks scored at 50% = Passing Marks + 4

Formula Used:

Marks Scored = (Percentage ÷ 100) × Total Marks

Calculations:

=> Let the Total Marks be x.

=> 20% of x + 11 = 50% of x − 4

=> 0.20x + 11 = 0.50x − 4

=> 11 + 4 = 0.50x − 0.20x

=> 15 = 0.30x

=> x = 15 ÷ 0.30 = 50

=> Passing Marks = (20% of 50) + 11

=> Passing Marks = (0.20 × 50) + 11 = 10 + 11 = 21

Therefore The correct answer is 21.

Additional Information

Passing Percentage

It is the minimum percent required to pass: (Passing Marks ÷ Total Marks) × 100.

Percentage Change Formula

Percentage difference between two results = (Difference in Marks ÷ Total Marks) × 100.

Total Marks Calculation

Total Marks = (Difference in Marks ÷ Difference in Percentages) × 100.

Q58. Answer: (d) 135

Given:

Ratio of 1 rupee, 50 paise and 25 paise = 5 : 3 : 1

Total number of coins = 180

Calculation:

Let, the number of coins of 1, 0.5, and 0.25 are 5x, 3x, and 1x respectively.

Hence, 5x + 3x + x = 180 ---- (1)

=> 9x = 180

=> x = 20

Hence, the number of 1 rupee coins = 5 × 20 = 100

Number of 50 paisa coins = 3 × 20 = 60

Number of 25 paisa coins = 20

Therefore Total value (in Rs.) = 1 × 100 + 0.5 × 60 + 0.25 × 20 = 135

Q59. Answer: (c) 5 : 2

Calculation:

Percentage of alcohol in Rahul's mixture = [2/(2 + 6)] × 100 = 25%

Percentage of alcohol in Dinesh's mixture = [1/(1 + 9)] × 100 = 10%

Therefore Required ratio = 25 : 10 = 5 : 2

Q60. Answer: (a) 38

Formula used:

Average = Sum of the observation ÷ no. of observation

Calculation:

Average of (d, e) – Average of (e, h) = 19

=> (d + e)/2 – (e + h)/2 = 19

=> d + e – e – h = 19(2)

=> d – h = 38

Therefore Difference between d and h = 38

Q61. Answer: (b) 8

Given:

R = 7.5%

Formula used:

Simple interest = (Principal × Rate × Time)/100

Let Principal = P, Time = T

=> (3/5)P = (P × 7.5 × T)/100

=> T = 60/7.5 = 8 years

Therefore Time period = 8 years

Q62. Answer: (a) 185.71

Calculation:

Let the SP of the article be Rs. 100.

CP = 35% of 100 = Rs. 35

Profit = 100 - 35 = Rs. 65

Profit % = (65/35) × 100 = 185.71%

Therefore The profit percentage is 185.71%

Q63. Answer: (a) 62.5

Given:

Marked price of shirt = Rs. 10400

Calculation:

Discount price = 20% of Marked price = 0.2 × 10400 = Rs. 2080

Selling price of shirt = Marked price – Discount price = 10400 – 2080 = Rs. 8320

Profit earned = 30% of Cost price

Because Cost price + Profit = Selling price

=> (100 + 30)% of Cost price = 8320

=> Cost price of shirt = 8320/1.3 = Rs. 6400

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If no discount is given, then selling price = marked price = Rs. 10400
Therefore Profit = [(10400 – 6400)/6400] × 100 = 62.5%

Q64. Answer: (c) Neither I nor II

Considering statement I,
=> 2√26 > 3√35
Squaring both sides,
=> 4(26) > 9(35)
=> 104 > 315, which is not true
Considering statement I,
=> 3√37 > 4√50
Squaring both sides,
=> 9(37) > 16(50)
=> 333 > 800, which is not true
Therefore Neither statement I nor II is true

Q65. Answer: (a) 55

Let Y take 'n' days to complete the wall alone
Time taken by X = (100 + 20)% of n = 1.2n
X's 1 day work = 1/1.2n = 5/6n
Y's 1 day work = 1/n
When they work together, they complete the wall in 30 days,
=> X's 1 day work + Y's 1 day work = 1/30
=> 5/6n + 1/n = 1/30
=> 11/6n = 1/30
=> n = (11 × 30)/6 = 55 days
Therefore Y will take 55 days to complete the wall alone

Q66. Answer: (b) 120/7

Given:
Distance = 20 km
Time = 15 minutes
Calculation:
Speed of car = Distance/Time = 20/(15/60) = 80 km/hr
When speed is decreased by 10 km/hr,
Speed of car = 80 – 10 = 70 km/hr
Therefore Time taken to cover same distance = 20/70 = 2/7 hrs = (2/7) × 60 = 120/7 minutes

Q67. Answer: (d) Milk

Calculation:
Value of milk = 1000 crores
Value of soya = 250 crores
Value of rice = 200 crores
Value of wheat = 900 crores
Value of sugarcane = 950 crores
Value of pulses = 800 crores
Value of corm = 400 crores
Here, we can see that 1000 crores is the most
Therefore Value of milk is the most

Q68. Answer: (d) 4500

Calculation:
Total value of annual production (in crores) = 1000 + 250 + 200 + 900 + 950 + 800 + 400
= Rs. 4500

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Q69. Answer: (d) 80

Annual production of Milk = Rs. 1000 crore

Total annual production = Rs. 4500 crore

Therefore Central angle of sector representing the production of Milk = (1000/4500) × 360° = 80°

Q70. Answer: (c) 600000

Annual production of Wheat = Rs. 900 crores

Value of Wheat per tonne = Rs. 15000

Therefore Wheat produced = (900 × 10^7)/15000 = 600000 tonnes

Q71. Answer: (d) 34

Given:

Breadth = 5 cm

Length = 12 cm

Concept used:

Because Perimeter of rectangle = 2(length + breadth)

Calculation:

Therefore Perimeter of given rectangle = 2(12 + 5) = 2(17) = 34 cm

Q72. Answer: (a) 1080°

For a regular polygon with n sides,

Sum of interior angles = (n – 2) 180°

Therefore Sum of interior angles of a regular polygon with 8 sides = (8 – 2) × 180° = 1080°

Q73. Answer: (c) 225

Because Volume of a cuboid = length × breadth × height

Therefore Volume of given cuboid = 7.5 × 5 × 6 = 225 cm³

Q74. Answer: (b) 4/√3

Given:

ΔDEF, angle E = 90° and angle D = 60°

Concept used:

Sum of angles of a triangle = 180°

Calculation:

=> angle D + angle E + angle F = 180°

=> 60° + 90° + angle F = 180°

=> angle F = 180° – 150° = 30°

Therefore (cot F + 1/√3) = cot 30° + 1/√3 = √3 + 1/√3 = 4/√3

Q75. Answer: (d) 3/4

Given:

cot X = 3/4

Calculation:

In ΔXYZ shown below,

cot X = Adjacent side/Opposite side = XY/YZ = 3/4

Therefore tan Z = Opposite side/Adjacent side = XY/YZ = 3/4

Here cot X = tan Z

Q76. Answer: (c) Stocks

The correct answer is Stocks.

Key Points

• M2 is the U.S. Federal Reserve's estimate of the total amount of money in circulation, which includes

• all of the cash that individuals have on hand as well as

• all of the funds put in checking and savings accounts as well as

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• other short-term savings accounts like certificates of deposit (CDs).
• Time deposits and retirement account balances over $100,000 are excluded from M2.

Additional Information

• M1 solely represents an estimate of deposits to checking and cash accounts.
• The M2 and M1 statistics are extensively watched each week as measures of the total money supply.
• Inflation can be detected by figures that are growing too quickly.
• All of the aforementioned plus sizable institutional cash deposits are included in the M3 measure of the money supply.
• The M3 is released four times a year.
• In M1, M2, or M3, gold is not taken into account.
• Today, gold is no longer a widely accepted form of payment.

Q77. Answer: (b) Second

The correct answer is Second.

Key Points

• Second Five-Year Plan:
• The focus of the second five-year plan was heavy industries.
• Rapid industrialization was used to set a goal of a 25% rise in national income.
• The Mahalanobis model is used in the second five-year plan.
• PC Mahalanobis, the founder of the Indian Statistical Institute and a close aide of Nehru, Indianized the USSR model.
• Through an elaborate input-output model, this approach is known to have provided the statistical foundations for state-directed investments and created the intellectual underpinnings of the licensing raj.
• This concept was used to establish India's second five-year plan and the Industrial Policy Resolution of 1956, which cleared the way for the rise of the public sector and the license raj.
• The growth target was 4.50% but achieved 4.27%.
• Achievements of the Second Five-Year Plan:
• In the second five-year plan, steel mills were built in Bhilai, Durgapur, and Rourkela.
• This plan included increased coal production and the addition of extra railway lines.
• Homi J. Bhabha was the first head of the Atomic Energy Commission, which was established in 1957.
• As a research institute, the Tata Institute of Fundamental Research was founded.
• A talent search and scholarship program was started in 1957 to locate exceptional young students who could be trained for the nuclear power industry.

Q78. Answer: (b) Chinook - China

The correct answer is Chinook - China.

Key Points

• Chinook
• Chinook winds are flows in North America.
• The interior Chinooks are Seasonally warm, dry föhn winds flow from the eastern sides of interior mountain ranges.
• The Chinooks were the real term, used onward the northwest coast,
• The term in the interior of North America is later extracted from the coastal term.

Additional Information

• Khamsin
• Khamsin is the hot, dry southerly wind observed in Egypt, corresponding to the Sirocco of North Africa.
• According to the Arabs, it blows during a period fifty days, from April to June, the name Khamsin being the Arabic word for fifty.
• Sirocco
• Hot, dry and sandy local wind blowing from the Sahara desert to the Mediterranean Sea.
• It is also known as Blood Rain.
• Sirocco is known by many local names in Africa
• Example in Egypt it is Khamsin, in Libya it is Ghibli, and in Tunesea it is Chili.

Q79. Answer: (d) Tehri Dam

The correct answer is Tehri Dam.

Key Points

• The Tehri Dam is located in the state of Uttarakhand.
• It is the highest dam in India with a height of 260.5 metres.
• It is situated on the river Bhagirathi.
• Height of the Dam: 260.5 m
• Length of the Dam: 575 m
• Type of Dam: Rockfill
• Reservoir capacity: 21,00,000 acre feet
• Installed capacity: 1000 MW

Additional Information

• Hirakud Dam:
• It is the longest earthen dam in the world.
• It is constructed across the great river Mahanadi.
• The bulk of the Hirakud dam contains earth, concrete, and masonry materials.
• From horizon to horizon the reservoir forms the largest artificial lake in Asia with an area of 746 sq. Km. and shoreline over 640 Kms.
• The project was formally inaugurated by Pandit Jawaharlal Nehru on 13th January 1957.
• The installed capacity for power generation is 347.5 MW through its two powerhouses at Burla, at the right bank, and Chiplima, at 22 km downstream of the Dam.
• Bhakra dam:
• Bhakra Dam is built on the river Sutlej.
• This joint multipurpose project of Punjab, Haryana, and Rajasthan states.
• It is the largest project in India.
• The total capacity of the Bakhra Nangal project is 14.7 lakh hectares.
• The dam is the second largest water reservoir in India after the Indira Sagar Dam in Madhya Pradesh in terms of water storage.
• Sardar Sarovar Dam:
• Sardar Sarovar dam is built on the river Narmada.
• The Sardar Sarovar Dam is a concrete gravity dam built on the Narmada river in Navagam near the town of Kevadiya, Narmada District, in the state of Gujarat, India.
• The dam was constructed to provide water and electricity to four Indian states; Gujarat, Madhya Pradesh, Maharashtra, and Rajasthan.

Q80. Answer: (a) Parsi

The correct answer is Parsi.

Key Points

• Navaroz is observed as the Parsi New Year all over the world.
• The Parsi community follows Zoroastrianism.
• It was founded by the Prophet Zoroaster.
• The Parsi community established the first Cricket Club in India.
• The Oriental Cricket Club was a cricket club established by the Parsi community.

Q81. Answer: (a) Kutch Rebellion

Kutch Rebellion occurred due to the removal of King Bharmal.

Rebellion	Year
Kutch Rebellion	1819
Surat Rebellion	1844
Khasi Rebellion	1833
Bhil Rebellion	1817-19

Q82. Answer: (b) Fifth

The correct answer is Fifth.

Key Points

• Guru Arjan dev was the 5th Guru of Sikhism.
• Founder of the Taran Taran Sahib city.
• He was executed by Mughal ruler Jahangir because of his refusal to convert to Islam religion.
• The first official edition of the Sikh scripture 'Adi Granth' was compiled by him.
• Guru Hargobind was the Successor of Guru Arjan dev.

Important Points

• The ten Sikh Gurus responsible for the expansion of Sikhism are:

1. Guru Nanak
2. Guru Angad Dev
3. Guru Amar Das
4. Guru Ram Das
5. Guru Arjun Dev
6. Guru Hargobind
7. Guru Har Rai
8. Guru Har Kishan
9. Guru Teg Bahadur
10. Guru Gobind Singh

Q83. Answer: (c) Gabon

Gabon has been declared as free from polio since there has been a reduction in the number of such cases reported in this Central African country. Now, only Afghanistan, Nigeria and Pakistan are two countries where polio is prevalent as per the estimates of the World Health Organization.

Q84. Answer: (d) Shabnam Asthana

Shabnam Asthana has been awarded the Times Power Woman of the Year – 2017 Award for global PR. The Times Power Women Award has been instituted for celebrating the victories of women having power, command and control.

Q85. Answer: (a) Magpie Robin

The correct answer is Magpie Robin.

Key Points

• The national symbols of Bangladesh:
• National Animal: Royal Bengal Tiger
• National Bird: Magpie Robin
• National Fish: Hilsa
• National Emblem: Coat of Arms
• National Flower: Water Lily

Q86. Answer: (d) X-rays

X-rays have a wavelength in the range of 10^(-11) – 10^(-8) metre

X-Rays are electro-magnetic radiation that is used for the production of photographs of bones to check fractured bones.

Q87. Answer: (c) Radioactivity

The correct answer is Radioactivity.

• The Geiger-Muller Counter device is used to detect and measure ionizing radiation in any form of radiation – alpha rays, beta rays, and gamma rays.
• The Becquerel is the SI unit of Radioactivity.
• One becquerel is defined as the activity of a quantity of radioactive material in which a single nucleus decays per second.
• This is a small amount for applications relating to human health, and multiple SI units are commonly used.
• The becquerel is named after Henri Becquerel, who in 1903 shared the Nobel Prize in Physics with Pierre and Marie Skłodowska Curie for their work in the discovery of radioactivity.

Instrument	Measures
Anemometer	Speed of air
G.M counter	Radioactivity

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Q88. Answer: (c) Ward

• The Gram Sabha is a meeting of all adults who live in the area covered by a Panchayat.

• This could be only one village or a few villages. In some states, as in the example above, a village meeting is held for each village.

• Anyone who is 18 years old or more and who has the right to vote is a member of the Gram Sabha.

• Every village Panchayat is divided into wards, i.e. smaller areas.

• Each ward elects a representative who is known as the Ward Member (Panch).

• All the members of the Gram Sabha also elect a Sarpanch who is the Panchayat President.

• The Ward Panchs and the Sarpanch form the Gram Panchayat.

• The Gram Panchayat is elected for five years.

• The Gram Panchayat has a Secretary who is also the Secretary of the Gram Sabha.

• This person is not an elected person but is appointed by the government.

• The Secretary is responsible for calling the meeting of the Gram Sabha and Gram Panchayat and keeping a record of the proceedings

Q89. Answer: (c) Constitution

The correct answer is Constitution.

Key Points

• The Constitution of India is the backbone of democracy in our country.

• It is an umbrella of rights that gives the citizens an assurance of a free and fair society.

• The Constituent Assembly adopted the Constitution on 26th November 1949 and it came into effect on 26th of January 1950.

• The Constitution of 1950 was a by-product of the legacy started by the Government of India Act 1935.

• This was the longest act passed by the British government with 321 sections and 10 schedules.

• This act had drawn its content from four sources – A report of the Simon Commission, discussions and deliberations at the Third Round Table Conference, the White Paper of 1933, and the reports of the Joint select committees.

Q90. Answer: (c) Stamens and Carpels

The correct answer is Stamens and Carpels.

Key Points

• Stamens

• The male reproductive organ of the flower is known as the stamen.

• It is having two parts:

• Anthers - The part of the stamen where pollen is produced.

• Filaments - It is a stalk-like structure that connects the base of the flower with anther.

• Carpels

• A carpel is the female reproductive part of the flower—composed of the ovary, style, and stigma—and is usually interpreted as modified leaves that bear structures called ovules, inside which egg cells ultimately form.

• Carpel, One of the leaflike, seed-bearing structures that constitute the innermost whorl of a flower.

• One or more carpels make up the pistil.

Additional Information

• Parts of a flower and their functions:

• Sepals: Protect the unopened flower

• Petals: Maybe brightly colored to attract insects

• Stamens: The male parts of the flower (each consists of an anther held up on a filament)

• Anthers: Produce male sex cells (pollen grains)

• Stigma: The top of the female part of the flower which collects pollen grains

• Ovary: Produces the female sex cells (contained in the ovules)

• Nectary: Produce a sugary solution called nectar, which attracts insect

Q91. Answer: (b) Lignin

The correct answer is Lignin

Explanation:-

• The cells of sclerenchyma tissue have their walls thickened due to the presence of Lignin.

• Sclerenchyma tissues are one of the fundamental tissues in the plants.

• These are the strengthening tissues in plants with lignified walls.

Sclerenchyma tissue:

• Sclerenchyma support tissue is composed of various kinds of hard woody cells.

• Mature cells are usually dead that have heavily thickened secondary walls containing lignin.

• Sclerenchyma cells occur in different shapes and sizes, its two main types are fibres and sclereids

• Fibres are greatly elongated cells whose long, tapering ends interlock each other thus providing maximum support to a plant.

• Sclereids are variable in shape and are present in various tissues of the plant, such as the periderm, cortex, pith, xylem, and phloem.

Additional Information Parenchyma, tissue is composed of living cells that are thin-walled, unspecialized in structure, and therefore adaptable, with differentiation, to various functions.

Aerenchyma tissue contains enlarged gas spaces.

• It is formed either as part of normal development or in response to stress.

Collenchyma supports the tissue of living elongated cells with irregular cell walls.

• These cells have thick deposits of cellulose in their cell walls and appear polygonal in cross-section.

-

Q92. Answer: (c) MSME Sambandh

MSME Sambandh portal has been launched by the Ministry of Micro, Small and Medium Enterprises in order to monitor the implementation of the public procurement policy of the Central Public Sector Enterprises from the MSME companies.

Q93. Answer: (c) United Kingdom

The oldest mammal ancestor of human kind has been found in the Jurassic Coast of Dorset in the UK. It used to live around 145 million years ago.

Q94. Answer: (b) $ 400 billion

The foreign exchange reserves of India touched $400.726 billion for the first time in the week ended September 8, 2017. This is expected to withstand any volatility in the valuation of Indian currency. Reserve Bank of India manages the foreign exchange reserves in India.

Q95. Answer: (c) Goa

The Union Ministry of Housing and Urban Affairs launched the ‘Protocol for Star Rating of Garbage-Free Cities’ in Goa. The Protocol for Star Rating of Garbage-free Cities has been launched as a 7-star rating system based on multiple indicators for solid waste management.

Q96. Answer: (c) 25

CONCEPT:

• Resistance: The property of electrical materials and electrical instruments that opposes the flow of current through them is called resistance.

• It is denoted by R.

• The SI unit of resistance is the ohm (Ω).

• Power: The rate of work done by an electric current is called power.

• It is denoted by P.

• The SI unit of power is the watt (W).

• Power dissipation is given by:

Power (P) = V I = V2/R = I2 R

Where V = potential difference across resistance, I = current flowing and R = resistance.

CALCULATION:

Given that:

Current (I) = 0.1 A

Potential difference (V) = 250V

• The power rating of the bulb (in Watt) is

=> P = V I

=> P = 250 × 0.1 W = 25 Watt

Q97. Answer: (a) Pressure

EXPLANATION:

The density of particles is more in solid and sound travels the fastest in it, thereby creating more pressure in the process. That is why the loudness is also the most in a solid medium.

Q98. Answer: (c) Winds

The correct answer is Winds.

Key Points

• The wind is the movement of air, caused by the uneven heating of the Earth by the sun and the Earth's own rotation. Winds range from light breezes to natural hazards such as hurricanes and tornadoes.

• Differences in atmospheric pressure generate winds.

• At the Equator, the sun warms the water and land more than it does the rest of the globe.

• Warm equatorial air rises higher into the atmosphere and migrates toward the poles. This is a low-pressure system.

• At the same time, cooler, denser air moves over Earth’s surface toward the Equator to replace the heated air. This is a high-pressure system.

• Winds generally blow from high-pressure areas to low-pressure areas.

• Prevailing winds are winds that blow from a single direction over a specific area of the Earth.

• Areas, where prevailing winds meet, are called convergence zones.

• Generally, prevailing winds blow east-west rather than north-south.

• This happens because Earth’s rotation generates what is known as the Coriolis effect.

• The Coriolis effect makes wind systems twist counter-clockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere.

Q99. Answer: (b) Both B and C

Cincinnati Masters 2017 winners:

Men’s Singles	**Grigor Dimitrov**
Women’s Singles	Gabrine Murugaza

In 2017, Patna Pirates clinched the Pro Kabaddi League title beating Gujarat Fortune-giants in the Finals by 55-38.

Q100. Answer: (a) TYPE = "TEXT"

• In HTML, "TEXT" creates a place wherein one line of information can be typed.

• HTML stands for Hyper Text Markup Language. It is the most common language for creating web pages and web applications.

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