SSC CHSL Previous Paper 28 (Held On: 16 March 2018 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

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

All the (1)/ furnitures also (2)/ burned down by the fire. (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'.

Le Duc Tho, chosen for the 1973 Peace Prize for his (1)/ act in the Paris Peace Accords, declined, stating (2)/ that there was no actual peace in Vietnam. (3)/ No error (4)

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

Q3. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The movie was an _____ watch.

(a) interesting
(b) intuitive
(c) interactive
(d) incentive

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.

We do not create enough space in our lives for the inspiration to _____ in.

(a) flow
(b) fly
(c) swim
(d) walk

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

Defile

(a) Corrupt
(b) Hallow
(c) Sanctify

(d) Honour

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

Cruddy

(a) Creamy
(b) Dirty
(c) Spotless
(d) Greedy

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

Digress

(a) Stray
(b) Stay
(c) Deviate
(d) Drift

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

Haggard

(a) Fresh
(b) Weak
(c) Pale
(d) Tire

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

Tarapur agreement guaranteed supplies of

P: Tarapur reactors for entire life

Q: enriched uranium fuel from

R: the US for running the

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

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.

Viraat threw the stone.

(a) The stone got threw by Viraat.
(b) The stone is thrown by Viraat.
(c) The stone thrown by Viraat.
(d) The stone was thrown by Viraat.

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.

“You have all done very badly!” remarked the mother.

(a) The mother asked if they have done badly.
(b) The mother remarked that they have did it badly.
(c) The mother said that they had done badly.
(d) The mother remarked that they had all done very badly.

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

(a) Referred
(b) Raferred
(c) Refferred
(d) Raeferred

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

We often feel, in such an environment, that our social sphere _____ around us. We can see, in quantitative values — the number of likes, re-posts, shares — the interest garnered by anything created by us. This makes social interaction slightly more _____, when we start to think of it in number terms. It becomes easier to see it in visual terms, rather ____ emotive cues. And _____ that happens we are motivated to reveal only those parts of _____ that we know will trigger a considerable quantitative response.

Q13. social sphere _____ around us.

(a) revolves
(b) revolve
(c) revolving
(d) revolution

Q14. slightly more _____, when we start

(a) clinically
(b) clinics
(c) clinic
(d) clinical

Q15. in visual terms, rather _____ emotive cues

(a) then
(b) than
(c) that
(d) which

Q16. And _____ that happens we are motivated

(a) why
(b) where
(c) whom
(d) when

Q17. those parts of _____ that we know

(a) our
(b) we
(c) ourselves
(d) us

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

Be under no illusions

(a) Not be duped by a cheater.
(b) Get out of a magic spell.
(c) Don’t have the habit of daydreaming.
(d) Be fully aware of the true state of affairs.

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

Level playing field

(a) A game played where the weaker side is given an advantage to make it a fair fight.
(b) A situation in which everyone has a fair and equal chance of succeeding.
(c) A game where you progress level by level.
(d) A game which appears unfair but is actually fair.

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

Characterized by severe self-discipline and abstention from all forms of indulgence, typically for religious reasons

(a) Hedonistic
(b) Decadent
(c) Effete
(d) Ascetic

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

The right to vote in political elections

(a) Suffrage
(b) Fetter
(c) Tether
(d) Coerce

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".

With all this my mind wandered back to my brother who (had gone) to play basketball.

(a) have gone
(b) have going
(c) had went
(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".

We lost our self-confidence and pride when the marks (were read) out in class.

(a) is read
(b) was read
(c) were reading
(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.

Children now prefer

A-online gaming in the air-conditioned

B-rooms of their homes to

C-sweating it out on the playground

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

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

(a) hibarnate
(b) hibernat
(c) hibernate
(d) hibarnat

GENERAL INTELLIGENCE

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

Flag : Nation :: ? : ?

(a) Consumer : Clothes
(b) Danger : Red
(c) Uniform : School
(d) Go : Green

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

9 : 81 :: 8 : ?

(a) 64
(b) 36
(c) 81
(d) 45

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

KMO : PRT :: LNP : ?

(a) QSU
(b) RTV
(c) QTV
(d) RSU

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

(a) Trouser – Garment
(b) Ostrich – Bird
(c) Table – Furniture
(d) Stationery – Pen

Q30. In the following question, four number pairs are given. The number on left side of (–) is related to the number on the right side of (–) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) 11 – 16
(b) 23 – 28
(c) 21 – 26
(d) 14 – 16

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

(a) GHJM
(b) PQSV
(c) MNPR
(d) STVY

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

1. Scarecrow
2. Scenery
3. Satisfied

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4. Shallow

5. Spelling

(a) 42315
(b) 31245
(c) 12435
(d) 23451

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

11, 14, 19, 22, 27, ?

(a) 32
(b) 31
(c) 30
(d) 33

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

SH, QJ, OL, ?, KP

(a) MN
(b) LM
(c) MP
(d) ST

Q35. Among four cars, weight of T1 is twice the weight of T2. Weight of T3 is half of the weight of T2. T4 is 25 kg heavier than T2, but 25 kg lighter than T1. What is the difference (in kg) between the weight of T4 and T3?

(a) 30
(b) 50
(c) 25
(d) 35

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

Elephant

(a) Hand
(b) Leap
(c) Ant
(d) Pent

Q37. In a certain code language, “LAND” is written as “33” and “TURN” is written as “75”. How is “MALE” written in that code language?

(a) 33
(b) 35
(c) 37
(d) 40

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

7 ÷ 10 – 15 + 6 × 18 = ?

(a) 1
(b) 43
(c) 49
(d) 2

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

3 + 4 – 25 ÷ 2 × 12 = 41

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

Q40. If 20 & 60 = 8, 40 & 80 = 12 and 10 & 20 = 3, then find the value of 20 & 50 = ?

(a) 18
(b) 7
(c) 10
(d) 17

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

XXXXXXx, XXXXXxX, XXXXxXX, XXXxXXX, XXxXXXX, _____.

(a) xXXXXXX
(b) XXXXXXx
(c) XxXXXXX
(d) XXXXXxX

Q42. X and Y are two children playing a game. They start from the same point. X walks 11 m North, then turns to his right and walks 21 m. At the same time, Y walks 11 m East, then turns South and walks 5 m, then turns to his left and walks 10 m. Where is Y now with respect to the position of X?

(a) 6 m South
(b) 16 m North
(c) 16 m South
(d) 6 m North

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

Statement I: Some clouds are fog

Statement II: All clouds are mist

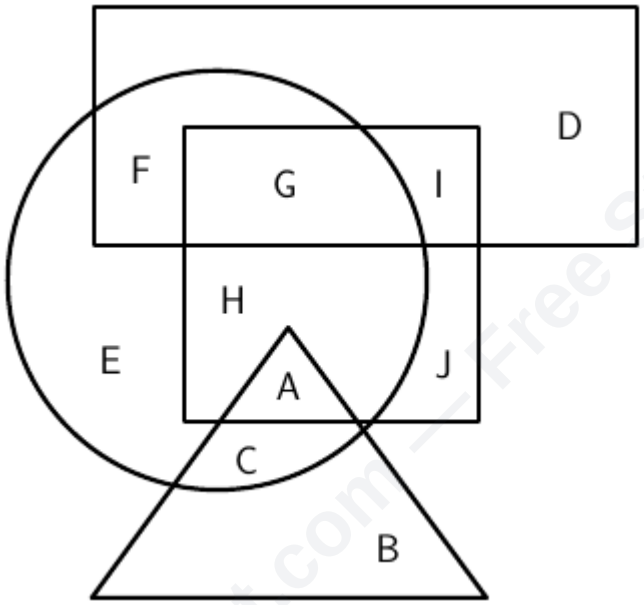
Conclusion I: Some fog are mist

Conclusion II: All mist are fog

(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 Psychologists, circle represents Curators, triangle represents Comedians and square represents Indians. Which set of letters represents Indians who are both Curators as well as Psychologists?

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

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

HVG, FTE, DRC, ?, ZNY

(a) CQB
(b) AOZ
(c) HRB
(d) BPA

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

107, 104, 100, 95, ?, 82

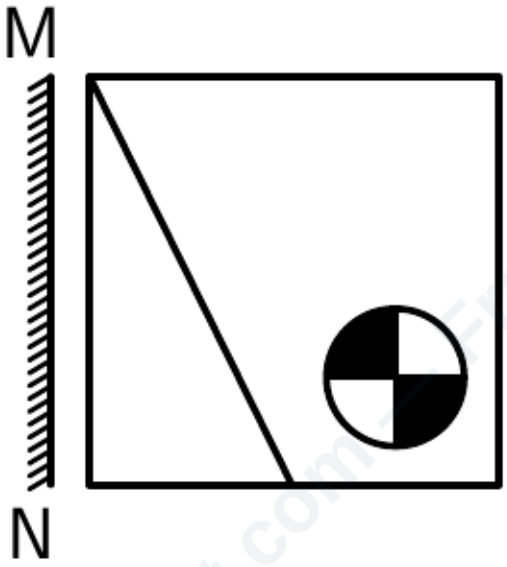
(a) 87
(b) 89
(c) 85
(d) 83

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.

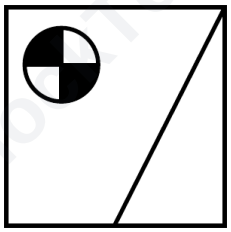
(a) (14, 29, 30)
(b) (17, 35, 36)
(c) (15, 32, 33)
(d) (21, 43, 44)

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

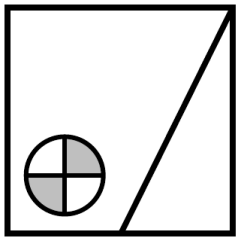
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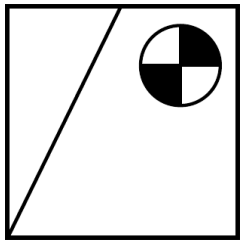
(a)



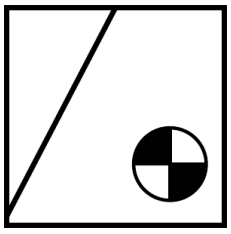
(b)



(c)

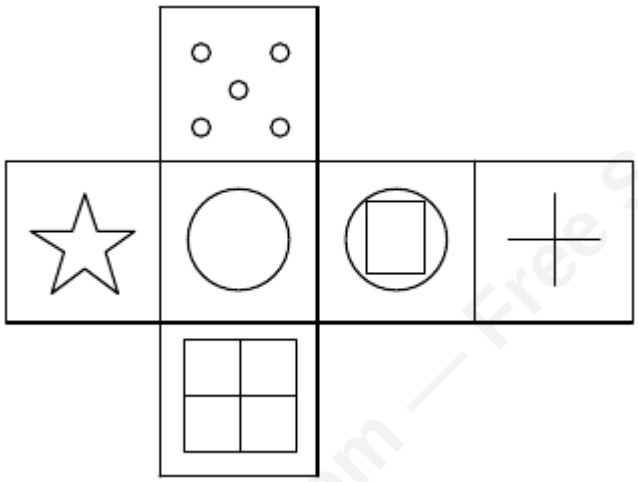


(d)

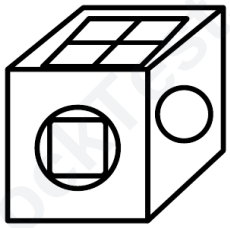


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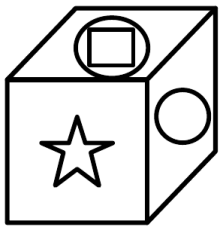
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



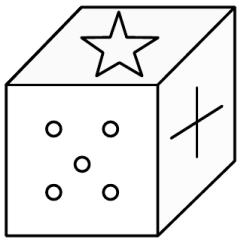
(a)



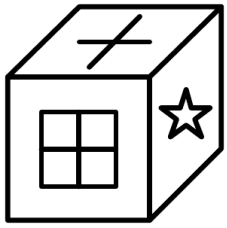
(b)



(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'I' can be represented by 30, 42 etc and 'W' can be represented by 87, 96 etc. Similarly, you have to identify the set for the word 'MATH'.

Matrix I		Matrix II									

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

(a) 14, 43, 98, 22
(b) 42, 66, 34, 87
(c) 22, 79, 44, 85
(d) 33, 76, 42, 95

QUANTITATIVE APTITUDE

Q51. Find the remainder, when (37 + 57 + 78 + 75 + 179) is divided by 17
(a) 1
(b) 2
(c) 5
(d) 7

Q52. If (1/2.315) = 0.4319, find the value of (1/0.0002315).
(a) 4319
(b) 2315
(c) 431.9
(d) 231.5

Q53. What is the value of 'x' in $2\sqrt{3x} - 5\sqrt{27x} + \sqrt{108x} = -21$?
(a) 0.33
(b) 1
(c) 3
(d) 9

Q54. What is the simplified form of $\sqrt{(64/288)}$?
(a) $(\sqrt{2})/3$
(b) 1/2
(c) $2/(\sqrt{3})$
(d) $3/(\sqrt{3})$

Q55. In a triangle, one of the angles is three times the smallest and another is two times the smallest angle. Calculate the smallest angle.
(a) 60°
(b) 30°
(c) 90°
(d) 45°

Q56. If the in-radius of an equilateral triangle is 3 cm. Calculate the perimeter (in cm) of the equilateral triangle.
(a) $6\sqrt{3}$
(b) $3\sqrt{3}$
(c) $12\sqrt{3}$
(d) $18\sqrt{3}$

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Q57. If A is 40% less than B, then B is how much percentage more than A?

(a) 72.33
(b) 60
(c) 40
(d) 66.66

Q58. The ratio of two numbers is 5 : 9 and their difference is 44. What will be the smaller number among both the numbers?

(a) 50
(b) 65
(c) 55
(d) 70

Q59. In a mixture of 45 litres, the ratio of liquid A and liquid B is 7 : 2. If 11 litres of liquid B is added to the mixture, then what will be the ratio of liquid A and liquid B in the new mixture?

(a) 7 : 4
(b) 8 : 5
(c) 6 : 5
(d) 5 : 3

Q60. If the population of a town increases by 25% in the first year and increases by 36% in the second year, then what is the average rate (in percentage)of increase in the population?

(a) 26
(b) 30.5
(c) 31.66
(d) 35

Q61. A sum of Rs 10000 becomes Rs 14641 when invested at compound interest at the yearly interest rate of 20% per annum. If the compounding is done half yearly, then for how many years was the sum invested?

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

Q62. A person sells wheat at a profit of 30%. If he reduces its selling price by Rs. 60, then he suffers a loss of 10%. What was the initial selling price (in Rs.) of the wheat?

(a) 195
(b) 210
(c) 180
(d) 130

Q63. If two successive discounts of 30% and 10% are given, then what will be the ratio of marked price to selling price?

(a) 50 : 21
(b) 25 : 9
(c) 100 : 63
(d) 25 : 21

Q64. What will be the value of that smallest positive integer N, such that √291N is an integer?

(a) 2
(b) 4
(c) 6
(d) 8

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Q65. U, V, and W together can make a chair in 20 minutes. U and V together can make it in 25 minutes. How much time (in minutes) will W take to make the chair alone?

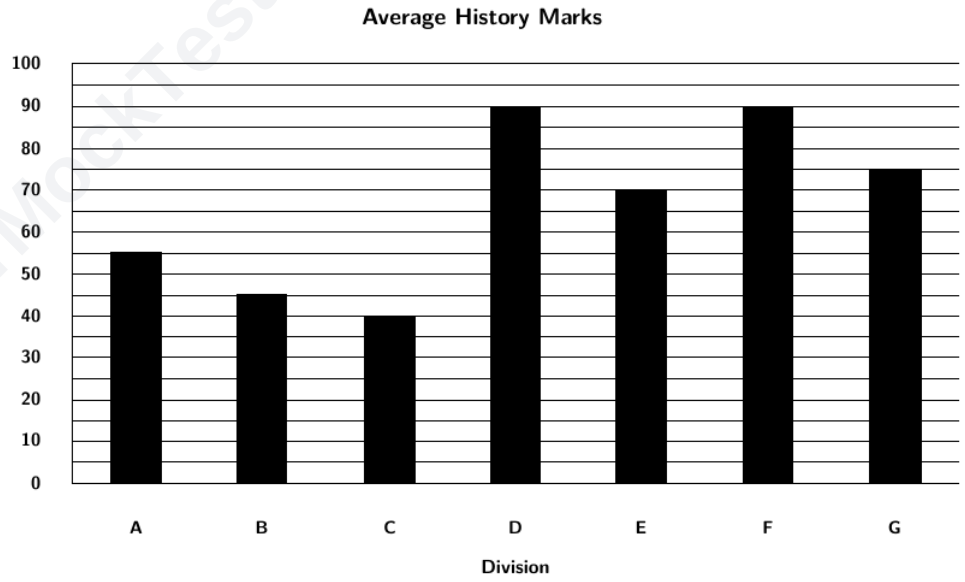
(a) 100
(b) 90
(c) 60
(d) 120

Q66. Two trains are moving in opposite directions with the same speed. If the length of each train is 144 metres and they cross each other in 9 seconds, then what is the speed (in km/hr) of each train?

(a) 53
(b) 57.6
(c) 60.4
(d) 64.8

Directions

Direction: The bar graph shows average marks scored in a 100 marks History exam by students of 7 division of Standard X. study the diagram and answer the following questions.



Q67. Which division scored the second lowest marks?

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

Q68. What is the ratio of average marks scored by Division D to Division G?

(a) 5 : 6
(b) 15 : 11
(c) 11 : 15
(d) 6 : 5

Q69. Marks of division F were greater than that of Division C by _____

(a) 125%
(b) 50%
(c) 55.5%
(d) 44.4%

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Q70. If all students of Division C lost 10 marks each for cheating in the test then their new average marks would decrease by how much?

(a) 25%
(b) 10%
(c) 20%
(d) 15%

Q71. If the length of one side and the diagonal of a rectangle are 10 cm and 26 cm respectively, then find its perimeter (in cm).

(a) 136
(b) 31
(c) 68
(d) 62

Q72. The circumference of a circle is 66 cm. Find its radius (in cm).

(a) 21
(b) 10.5
(c) 4.5
(d) 9

Q73. Find the curved surface area (in cm^2) of a right circular cylinder of diameter 14 cm and height 8 cm.

(a) 308
(b) 352
(c) 327
(d) 371

Q74. ΔDEF is right angled at E. If angle F = 45°, then find the value of (tanD - √3/2).

(a) -√3/2
(b) -1/2√3
(c) (2 - √3)/2
(d) (3√3 - 1)/3

Q75. ΔUVW is right angled at V. If cosU = 8/17, then what is the value of sinW?

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

GENERAL AWARENESS

Q76. Today _____ are seen as personal accessory - portable, powerful and simple to operate.

(a) E-mail
(b) e-business
(c) e-content
(d) Computers

Q77. Which of the statements given below are correct?

A) In 2017 Pro Kabaddi League, Sandeep Narwal played for Bengaluru Bulls.

B) Alexander Norén won the Golf 2017 BMW PGA Championship.

C) In 2017, Michael Carrick captained the Premier League team Manchester City.

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

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Q78. The boundaries of the plates of the earth's _____ are the weak zones known as seismic or fault zones.

(a) crust
(b) core
(c) kernel
(d) pith

Q79. The gravitational force of attraction between two bodies is _____ the distance between the two bodies.

(a) Inversely proportional to the
(b) Directly proportional to the square of
(c) Inversely proportional to the square of
(d) Directly proportional to the

Q80. Find the acceleration (in m/s^2) of a body which accelerates from 15 m/s to 40 m/s in 2 seconds.

(a) 12.5
(b) 27.5
(c) 25
(d) 55

Q81. In January 2018, who notified the Companies (Amendment) Act, 2017?

(a) Ministry of Finance
(b) Ministry of Corporate Affairs
(c) Ministry of Commerce and Industry
(d) Ministry of Information and Technology (IT)

Q82. As per the guidelines issued by the RBI in September 2017, all Peer-to-Peer lending (P2P) platforms will be treated as _____.

(a) Payment Banks
(b) Small Finance Banks
(c) NBFCs
(d) Regional Rural Banks

Q83. Which country has developed world's first artificial intelligence politician named SAM?

(a) Britain
(b) New Zealand
(c) Saudi Arabia
(d) Israel

Q84. In October 2017, the biggest ever highway project was launched in India. It aims to develop approximately how many kilometers of roads by the year 2022?

(a) 65000
(b) 83000
(c) 1,00,000
(d) 50000

Q85. Which of the following is NOT a feature found in almost every cell?

(a) Cell wall
(b) Plasma membrane
(c) Nucleus
(d) Cytoplasm

Q86. Some amount of plasma, proteins, and blood cells escape through the pores present in the walls of capillaries into the intercellular spaces in the tissue and form _____.

(a) Heparin
(b) Lymph
(c) Platelet

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(d) Protein

Q87. Under which Article of Indian Constitution an emergency can be declared on the grounds of war, or external aggression or armed rebellion?

(a) Article 348
(b) Article 352
(c) Article 356
(d) Article 360

Q88. The constitution of India refers to the budget as the _____.

(a) Annual Financial Statement
(b) Money Bill
(c) Finance Bill
(d) Annual Money Statement

Q89. Saturated carbon compounds can form which types of chain structures?

I. Straight chain
II. Branched-chain

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

Q90. An atom can achieve octet by _____.

I. Sharing electron
II. Gaining electron
III. Losing electron

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

Q91. “Golden Land” is a popular sobriquet of which of the following country?

(a) China
(b) Bhutan
(c) Myanmar
(d) Sri Lanka

Q92. Which film won the Oscar Awards 2017 for the best picture category?

(a) La La Land
(b) The Sales Man
(c) Manchester by the sea
(d) Moon Light

Q93. How many agreements have been signed by India and Israel in July 2017?

(a) 5
(b) 7
(c) 9
(d) 11

Q94. Which one of the pairs of folk dance and state is NOT correctly matched?

(a) Ghoomar - Haryana
(b) Tamasha - Maharashtra
(c) Kajri - Uttar Pradesh
(d) Baul - West Bengal

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Q95. Which of the following range is known as 'Sahyadri'?

(a) Satpura
(b) Western Ghats
(c) Eastern Ghats
(d) Aravali

Q96. Where is located the most active volcano in the world?

(a) Around the Atlantic Ocean
(b) Around the Pacific Ocean
(c) Around the Indian Ocean
(d) Around the Arctic Ocean

Q97. Which of the following movements is related to the Teenkathiya system?

(a) Tebhaga Movement
(b) Kheda Satyagraha
(c) Champaran Satyagraha
(d) Bardoli Satyagraha

Q98. The famous Kosijura Case of Bengal happened in whose reign?

(a) Warren Hastings
(b) Lord Cornwallis
(c) John Shore
(d) Wellesley

Q99. Economic Survey is published by _____.

(a) Government of India
(b) Indian Statistical Institute
(c) Ministry of Finance
(d) Planning Commission

Q100. The term "Smart Money" broadly refers to _____.

(a) Foreign currency
(b) Credit Cards
(c) Internet banking
(d) Travellers' cheques

ANSWER KEY

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

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SOLUTIONS

Q1. Answer: (b) 2

Here the correct answer is 2.

Key Points:-

• In the above given sentence, the error is in part 2.

• It is so because 'Some nouns are always used in singular number'.

• For Example - Scenery, machinery, stationery, poetry, sultry, jewellery, crockery, luggage, baggage, breakage, haltage, percentage, knowledge, postage, wastage, furniture, information, traffic, coffee, dust etc.

• The plural of furniture is furniture itself, not furnitures.

Therefore, the correct sentence is All the furniture also burned down by the fire.

Q2. Answer: (d) 4

Here the correct answer is 4.

Key Points:-

• There is no error in the above given sentence.

• The sentence is grammatically and contextually correct.

• All the parts of speech are aptly used.

Therefore, the correct sentence is Le Duc Tho, chosen for the 1973 Peace Prize for his act in the Paris Peace Accords, declined, stating that there was no actual peace in Vietnam.

Q3. Answer: (a) interesting

Here the correct answer is Interesting.

Key Points :-

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

• It is so because 'watch' is a noun which will take an adjective to show its quality.

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

• Intuitive*(adjective)* - using or based on what one feels to be true even without conscious reasoning; instinctive.

• Interactive*(adjective)* - (of two people or things) influencing each other.

• Incentive*(noun)* - a thing that motivates or encourages someone to do something.

• Clearly, none of these would describe a movie.

• Now, let's look at the meaning of interesting:-

• Interesting*(adjective)* - arousing curiosity or interest; holding or catching the attention.

• From the above given meaning of interesting, we can state that a movie can only be interesting because it arouses curiosity or interest and also catches the viewers attention.

Therefore, the correct sentence is The movie was an interesting watch.

Q4. Answer: (a) flow

Here the correct answer is Flow.

Key Points:-

• In the above given sentence, 'flow' will be used.

• It is so because living things fly/swim/walk.

• Inspiration(non-living thing) doesn't qualify that criterion.

• It either flows or comes.

• Thus, 'flow' will be used.

Therefore, the correct sentence is We do not create enough space in our lives for the inspiration to flow in.

Q5. Answer: (a) Corrupt

Here the correct answer is Corrupt.

Key Points:-

• Let's look at the meaning of the given word:-

• Defile*(verb)* - damage the purity or appearance of; mar or spoil.

• For Example - The land was defiled by a previous owner.

• Let's look at the meaning of the correct answer:-
• Corrupt*(adjective)* - having or showing a willingness to act dishonestly in return for money or personal gain.
• For Example - Unscrupulous logging companies assisted by corrupt officials.
Therefore, the correct synonym for the given word is Corrupt.

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

WORD	MEANING
Hallow*(verb)*	make holy; consecrate.
Sanctify*(verb)*	set apart as or declare holy; consecrate.
Honour*(verb)*	regard with great respect.

Q6. Answer: (b) Dirty

Here the correct answer is Dirty.
Key Points:-
• Let's look at the meaning of the given word:-
• Cruddy*(adjective)* - covered, encrusted, or saturated with dirt, grease, or other objectionable substance; filthy.
• For Examples:-
• It gets the cruddiest work clothes clean.
• Keep your cruddy remarks to yourself.
• Let's look at the meaning of the correct answer:-
• Dirty*(adjective)* -covered or marked with an unclean substance.
• For Example - A tray of dirty cups and saucers was kept on the table.
Therefore, the correct synonym for the given word is Dirty.

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

WORD	MEANING
Creamy*(adjective)*	resembling cream in consistency or colour.
Spotless*(adjective)*	absolutely clean or pure; immaculate.
Greedy*(adjective)*	having or showing an intense and selfish desire for wealth or power.

Q7. Answer: (b) Stay

Here the correct answer is Stay.
Key Points:-
• Let's look at the meaning of the given word:-
• Digress*(verb)* - to move away from the main subject; deviate; stray; drift away.
• For Example - I have digressed a little from my original plan.
• Let's look at the meaning of the correct answer:-
• Stay*(verb)* - remain in a specified state or position.
• For Example - Her ability to stay calm made her what she is.
Therefore, the correct antonym for the given word is Stay.

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

WORD	MEANING
Stray*(verb)*	move away aimlessly from a group or from the right course or place.

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Deviate*(verb)*	depart from an established course.
Drift*(verb)*	(of a person or their attention) digress or stray to another subject.

Q8. Answer: (a) Fresh

Here the correct answer is Fresh.

Key Points:-

• Let's look at the meaning of the given word:-

• Haggard*(adjective)* - looking exhausted and unwell, especially from fatigue, worry, or suffering.

• For Example - She was pale and haggard.

• Let's look at the meaning of the correct answer:-

• Fresh*(adjective)* - (of a person) full of energy and vigour.

• For Example - They are feeling fresh after a good night's sleep.

Therefore, the correct antonym for the given word is Fresh.

Additional Information

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

WORD	MEANING
Weak*(adjective)*	lacking the power to perform physically demanding tasks; having little physical strength or energy.
Pale*(adjective)*	light in colour or shade; containing little colour or pigment.
Tire*(verb)*	feel or cause to feel in need of rest or sleep.

Q9. Answer: (b) QRP

Here the correct answer is QRP.

Key Points:-

• A sentence can't end with fuel from or the i.e. P has to be last.

• Thus, we can eliminate option 1 and 4.

• R can't be first as it starts with the US and you can't have supplies of a country.

• Supplies is of a material i.e. uranium in the context of the sentence.

• Thus, Q will be the first sentence.

• Therefore, the correct sequence is QRP.

Correct Sentence - Tarapur agreement guaranteed supplies of enriched uranium fuel from the US for running the Tarapur reactors for entire life.

Q10. Answer: (d) The stone was thrown by Viraat.

Here the correct answer is The stone was thrown by Viraat.

Key Points:-

• The above-given sentence is in the active voice.

• We need to change it in the passive voice.

• The following steps are required to change the given sentence into passive voice:-

• The subject 'Viraat' of the active voice will become the object of the passive voice.

• The object 'the stone' of the active voice will become the subject of the passive voice.

• The tense(simple past tense) will change according to the following structure:-

• Active Voice - Subject + (did + V1) or (V2)+ Object.

• Passive Voice - Object + was/were + V3 + by + Object.

Therefore, the correct passive voice is The stone was thrown by Viraat.

Additional Information

• When we convert active voice to passive voice, three things need to be kept in mind:-

• Change object into subject.

• Change subject into object.

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• Always use the third form of verb in the passive voice.
• Use 'by' before the new object.

Q11. Answer: (d) The mother remarked that they had all done very badly.

Here the correct answer is The mother remarked that they had all done very badly.

Key Points:-

• Let's look at the steps for changing the sentence from direct to indirect speech:
• As the reporting verb is in the past tense and direct speech is in the present perfect tense, we will take the following steps:-
• The reporting verb 'remarked' is unchanged.
• The conjunction 'that' is used in place of the comma and the inverted comma are removed.
• The present perfect tense is changed to past perfect tense in the direct speech.(Have changes to had)
• Since you is being used in the plural sense here (notice all), it changes to they.
• We can't just remove any piece of info from the sentence. Notice how option 3 doesn't contain all and very.

Therefore, the correct indirect speech is The mother remarked that they had all done very badly.

Additional Information

The following table will enable us to know how tense changes in indirect speech:-

Direct Speech	Indirect Speech
Simple Present (Subject + V1 + Object)	Simple Past (Subject + V2 + Object)
Present Continuous (Subject + is/am/are + V1 + ing + Object)	Past Continuous (Subject + was/were + V1 + ing + Object)
Present Perfect (Subject + has/have + V3 + Object)	Past Perfect (Subject + had + V3 + Object)
Simple Past (Subject + V2 + Object)	Past Perfect (Subject + had + V3 + Object)
Past Continuous (Subject + was/were + V1 + ing + Object)	Past Perfect Continuous (Subject + had been + V1 + ing + Object)
Simple Future (Subject + will/shall + V1 + Object)	Present Conditional (Subject + would + V1 +Object)
Future Continuous (Subject + will/shall + V1 + ing + Object)	Conditional Continuous (Subject + would + be + V1 + ing + Object)

Q12. Answer: (a) Referred

Here the correct answer is Referred.

Key Points:-

• Let's look at the correct spelling and meaning of the given word:-
• Referred*(verb)* - mention or allude to.
• For Example - Her mother never referred to him again.

Therefore, the correct spelling is Referred.

Q13. Answer: (a) revolves

Here the correct answer is Revolves.

Key Points:-

• Here we need to fill the blank with a verb to qualify the noun 'sphere'.
• Since it 'sphere' is singular, therefore, a singular verb 'revolves' will be used.
• This eliminates option 1.
• The sentence is in simple present tense, therefore, option 3 can be eliminated.
• Revolution cannot be used because it is a noun.

Therefore, the correct word for the blank is Revolves.

Q14. Answer: (d) clinical

Here the correct answer is Clinical.

Key Points:-

• In the above given sentence of the passage, 'clinical' will be used.
• It is so because we are trying to describe social*(adjective)* interaction*(noun)* by more _____.
• 'More' here is acting as an adverb which will qualify the following adjective.

• Clearly, an adjective should fill in.
• Clinically is an adverb, therefore, option 1 can be eliminated.
• Clinic and clinics are nouns.
• Therefore, option 2 and 3 are eliminated.
Therefore, the correct word for the blank is Clinical.

Q15. Answer: (b) than

Here the correct answer is Than.
Key Points:-
• In the above given sentence of the passage, 'than' will be used.
• It is so because 'Rather than' is a conjunction used with the infinitive form of a verb to indicate negation as a contrary choice or wish.
• It also means instead of; in place of.
• For Examples:-
• He chose to sing rather than play violin.
• Rather than continue the argument, he walked away.
• Thus, we always use than with rather.
Therefore, the correct word for the blank is Than.

Q16. Answer: (d) when

Here the correct answer is When.
Key Points:-
• It is trying to say that at the time of that happening, we are motivated.
• To express at what time, we use when.
• You can easily figure this out from the previous 2 sentences as well which talk about issues using when.
• In the context of the sentence, when we think of the social sphere in terms of numbers, then that time has been expressed by when.
Therefore, the correct word for the blank is When.

Q17. Answer: (c) ourselves

Here the correct answer is Ourselves.
Key Points:-
• In the above given blank, 'ourselves' will be used.
• It is so because 'of' has been used due to which we will have to use the object form i.e. ourselves.
Therefore, the correct word for the blank is Ourselves.

Q18. Answer: (d) Be fully aware of the true state of affairs.

Here the correct answer is Be fully aware of the true state of affairs.
Key Points:-
• Let's look at the meaning of the given idiom/phrase:-
• Be under no illusions - be fully aware of the true state of affairs.
• For Example - She is under no illusion about the fact that her parents will be choosing a groom for her.
Therefore, the correct meaning of the given idiom/phrase is Be fully aware of the true state of affairs.

Q19. Answer: (b) A situation in which everyone has a fair and equal chance of succeeding.

Here the correct answer is A situation in which everyone has a fair and equal chance of succeeding.
Key Points:-
• Let's look at the meaning of the given idiom/phrase:-
• Level playing field - A situation in which everyone has a fair and equal chance of succeeding.
• For Example - They are still not providing a level playing field in terms of opportunities for women.
Therefore, the correct meaning of the given idiom/phrase is A situation in which everyone has a fair and equal chance of succeeding.

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Q20. Answer: (d) Ascetic

Here the correct answer is Ascetic.

Key Points:-

• Let's look at the meaning of the correct answer:-

• Ascetic*(noun, adjective) -* characterized by severe self-discipline and abstention from all forms of indulgence, typically for religious reasons OR a person who follows an ascetic life.

• For Example - He followed an ascetic life of prayer, fasting, and manual labour.

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

• Hedonistic - engaged in the pursuit of pleasure; sensually self-indulgent.

• Decadent - characterized by or reflecting a state of moral or cultural decline.

• Effete - no longer capable of effective action.

Therefore, the correct one word for the given descriptive sentence is Ascetic.

Q21. Answer: (a) Suffrage

Here the correct answer is Suffrage.

Key Points:-

• Let's look at the meaning of the correct answer:-

• Suffrage*(noun)* - the right to vote in political elections.

• For Example - The right of suffrage is confined by the constitution to adult male citizens who have resided in the state for one year.

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

• Fetter - restrain with chains or manacles, typically around the ankles.; bind.

• Tether - tie up.

• Coerce - force; pressurize.

Thus, the correct one word for the given descriptive phrase/sentence is Suffrage.

Q22. Answer: (d) no improvement

Here the correct answer is No Improvement.

Key Points:-

• The sentence contains two conditions.

• Firstly, the action of his brother going happened.

• Then, his mind wandered.

• Thus, the action that has taken place earlier would be expressed in past perfect tense*(had gone)* and the action that has taken place later will be expressed in simple past tense*(wandered)*.

• So, the sentence requires no improvement.

Therefore, the correct sentence is With all this my mind wandered back to my brother who had gone to play basketball.

Q23. Answer: (d) no improvement

Here the correct answer is No Improvement.

Key Points:-

• The above given sentence is in simple past tense.

• We have come to this conclusion after looking at 'lost'.

• Therefore, option 3 can be eliminated.

• Since marks are plural, therefore, 'were' will be used.

• Thus, we can eliminate options 1 and 2.

Therefore, the correct sentence is We lost our self-confidence and pride when the marks were read out in class.

Q24. Answer: (b) ABC

Here the correct answer is ABC.

Key Points:-

• A sentence can't end with of their homes to or in the air conditioned (must have a noun after air-conditioned).

• The noun that will follow air-conditioned will be 'rooms'.

• 'Sweating' will follow 'to' as it is comparing the two lifestyles i.e.online gaming in air-conditioned rooms and playing in the playground.

Therefore, the correct sentence is Children now prefer online gaming in the air conditioned rooms of their homes to sweating it out on the playground.

Q25. Answer: (c) hibernate

Here the correct answer is Hibernate.

Key Points:-

• Let's look at the correct spelling and meaning of the given word:-

• Hibernate*(verb)* - (of an animal or plant) spend the winter in a dormant state.

• For Example - Some species hibernate in tree roosts.

Therefore, the correct spelling of the given word is Hibernate.

Q26. Answer: (c) Uniform : School

'Flag' represents and symbolizes a 'Nation', similarly, 'Uniform' represents and symbolizes a 'School'.

Q27. Answer: (a) 64

The logic followed here is:

Second number is square of the first number. Therefore, square of 8 is 64.

Hence, answer is '64'.

Q28. Answer: (a) QSU

Pattern followed for KMO,

Similarly,

Hence, answer is 'QSU'.

Q29. Answer: (d) Stationery – Pen

Trouser is a garment, Ostrich is a bird and Table is a piece of furniture.

Pen can be classified as a stationery. Here the order or relation is written in reverse.

Hence, 'Stationery – Pen' is the odd one out.

Q30. Answer: (d) 14 – 16

The logic/rule/relation followed here is:

1) 11 – 16 → 11 + 5 = 16

2) 23 – 28 → 23 + 5 = 28

3) 21 – 26 → 21 + 5 = 26

4) 14 – 16 → 14 + 2 = 16

Clearly, '14 – 16' is the odd one out.

Q31. Answer: (c) MNPR

The logic/rule/relation followed here is:

1) GHJM → G + 1 = H → H + 2 = J → J + 3 = M

2) PQSV → P + 1 = Q → Q + 2 = S → S + 3 = V

3) MNPR → M + 1 = N → N + 2 = P → P + 2 = R

4) STVY → S + 1 = T → T + 2 = V → V + 3 = Y

Clearly, 'MNPR' is the odd one out.

Q32. Answer: (b) 31245

3. Satisfied

1. Scarecrow

2. Scenery

4. Shallow

5. Spelling

Hence, correct order of sequence is '31245'.

Q33. Answer: (c) 30

The pattern followed here is:

11 + 3 = 14 → 14 + 5 = 19 → 19 + 3 = 22 → 22 + 5 = 27 → 27 + 3 = 30

Hence, answer is '30'.

Q34. Answer: (a) MN

The pattern followed in given series is,

Hence, answer is 'MN'.

Q35. Answer: (b) 50

According to question:

T1 = 2T2 _____ (i)

T3 = (1/2) T2 → 2T3 = T2 _____ (ii)

T4 = T2 + 25 _____ (iii)

T4 = T1 – 25 _____ (iv)

On subtracting equation (iii) from equation (iv), we get :

T4 – T4 = T2 – T1 + 25 – (–25)

→ 0 = T2 – T1 + 25 + 25

→ T1 – T2 = 50 _____ (v)

Substituting the value of T1 in equation (v) from equation (i), we get

2T2 – T2 = 50

→ T2 = 50

Therefore, T1 = 100, T3 = T2/2 = 50/2 = 25 and T4 = T2 + 25 = 50 + 25 = 75

Therefore, T4 – T3 = 75 – 25 = 50

Hence, answer is '50'.

Q36. Answer: (a) Hand

1) Hand → Elephant → Cannot be formed as 'd' is required to complete the word

2) Leap → Elephant → Can be formed

3) Ant → Elephant → Can be formed

4) Pent → Elephant → Can be formed

Hence, 'Hand' cannot be formed.

Q37. Answer: (a) 33

The pattern followed here is:

Hence, the correct answer is '33'.

Q38. Answer: (d) 2

Symbol	**–**	**•**	**×**	**÷**
Meaning	•	×	÷	–

Given equation:

7 ÷ 10 – 15 + 6 × 18

On replacing the symbols:

7 – 10 + 15 × 6 ÷ 18

→ 7 – 10 + 15 × (1/3)

→ 7 – 10 + 5

→ 12 – 10

→ 2

Hence, the correct answer is '2'.

Q39. Answer: (c) × and –

Given equation:

3 + 4 – 25 ÷ 2 × 12 = 41

1) ÷ and –

3 + 4 ÷ 25 – 2 × 12

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→ 3 + .16 – 24
→ -20.84 ≠ 41
2) + and ÷
3 ÷ 4 – 25 + 2 × 12 = 41
→ .75 – 25 + 24
→ -0.25 ≠ 41
3) × and –
→ 3 + 4 × 25 ÷ 2 – 12
→ 3 + 4 × 12.5 – 12
→ 3 + 50 – 12
→ 41 = 41
4) – and +
3 – 4 + 25 ÷ 2 × 12
→ 3 – 4 + 12.5 × 12
→ 3 – 4 + 150
→ 149 ≠ 41
Hence, answer is '× and –'.

Q40. Answer: (b) 7

The operation followed here is:
20 & 60 = 20 + 60 = 80 → 8 + 0 = 8
40 & 80 = 40 + 80 = 120 → 12 + 0 = 12
10 & 20 = 10 + 20 = 30 → 3 + 0 = 3
Similarly,
20 & 50 = 20 + 50 = 70 → 7 + 0 = 7
Hence, answer is '7'.

Q41. Answer: (c) XxXXXXX

The pattern followed here is:
'x' shifts one place to the left and this process is continued in the series till the last.
Therefore, 'XxXXXXX' will complete the trend of the given list.
Hence, answer is 'XxXXXXX'.

Q42. Answer: (c) 16 m South

The following diagram shows the displacement of X and Y,
Hence, Y is 16 m towards South direction with respect to X.

Q43. Answer: (a) Only conclusion I follows

The least possible Venn Diagram for the given statements is as follows,
Conclusion I: Some fog are mist → True. (Some clouds are fog and All clouds are mist)
Conclusion II: All mist are fog → False.(it is possible but not definite)
Hence, only conclusion I follows.

Q44. Answer: (d) G

Clearly, G is the only person who is Indian as well as Curator and Psychologist.
Hence, answer is 'G'.

Q45. Answer: (d) BPA

The pattern followed here is:
Hence, the correct answer is 'BPA'.

Q46. Answer: (b) 89

The pattern followed here is:
107 – 3 = 104 → 104 – 4 = 100 → 100 – 5 = 95 → 95 – 6 = 89 → 89 – 7 = 82

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Hence, answer is '89'.

Q47. Answer: (c) (15, 32, 33)

The logic/rule/relation followed here is:

1) (14, 29, 30) → 14 + (14 + 1) → 14 + 15 = 29 → 29 + 1 = 30

2) (17, 35, 36) → 17 + (17 + 1) → 17 + 18 = 35 → 35 + 1 = 36

3) (15, 32, 33) → 15 + (15 + 2) → 15 + 17= 32 → 32 + 1 = 33

4) (21, 43, 44) → 21 + (21 + 1) → 21 + 22 = 43 → 43 + 1 = 44

Clearly, (15, 32, 33) is the odd one out.

Q48. Answer: (b) [figure]

The correct mirror image of the given figure when the mirror is held on the right side is:

Hence, the answer is option '2'.

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: (b) [figure]

Form the given unfolded dice option 2 cannot be formed as a square within circle face and star face side are opposite to each other.

Hence, option 2 cannot be formed.

Q50. Answer: (a) 14, 43, 98, 22

1) 14, 43, 98, 22 → M, A, T, H.

2) 42, 66, 34, 87 → I, Z, F, W.

3) 22, 79, 44, 85 → H, S, C, Q.

4) 33, 76, 42, 95 → H, N, I, Z.

Hence, answer is '14, 43, 98, 22'.

Q51. Answer: (a) 1

=> (37 + 57 + 78 + 75 + 179)/17 = 426/17 = (17 × 25) + 1

Therefore Remainder is 1

Q52. Answer: (a) 4319

Given:

=> (1/2.315) = 0.4319

Calculation:

Now,

Therefore (1/0.0002315) = (1/2.315) × 10000 = 0.4319 × 10000 = 4319

Q53. Answer: (c) 3

=> 2√3x - 5√27x + √108x = - 21

=> 2√3x - 15√3x + 6√3x = - 21

=> - 7√3x = - 21

=> √3x = 3

Squaring both side, we get

=> 3x = 9

Therefore x = 3

Alternate Method The value given in the right hand side of the equation is a rational number(without any under root). It means the value inside the under root at the left hand side must be a perfect square.

The number that need to be multiplied with 108 to make it a perfect square = 3

Therefore The required value is 3.

Q54. Answer: (a) (√2)/3

Therefore √(64/288) = √(2/9) = (√2)/3

Q55. Answer: (b) 30°

Calculation:

Let smallest angle (say, angle A) be a°

According to question,

=> angle B = 3a°

=> angle C = 2a°

Now, by angle sum property of triangle,

=> angle A + angle B + angle C = 180°

=> a + 3a + 2a = 180°

=> 6a = 180°

Therefore a = 30°

Q56. Answer: (d) 18√3

Given:

In-radius of an equilateral triangle = 3 cm

Concept used:

In-radius of equilateral triangle = side/2√3

The perimeter of the equilateral triangle = 3 × side

Calculation:

In-radius of equilateral triangle = side/2√3

=> 3=side/2√3

=> Side = 6√3 cm

Perimeter of equilateral triangle = 3 × side = 3 × 6√3 = 18√3 cm

Therefore The correct answer is 18√3 cm.

Additional Information

1. In an equilateral triangle, the ratio of the radius of circumcircle to that of incircle Is 2:1

2. In an equilateral triangle, altitude, perpendicular bisectors, angle bisectors, and medians are the same

3. In an equilateral triangle, centroid, circumcentre, incentre, and orthocenter are the same.

so median divides altitude into circumcenter and incentre in ratio 2:1

Circumradius = abc/(4× Area of triangle)

Inradius = (area of triangle)/(semi perimeter of triangle)

Circumradius = side/√3

Q57. Answer: (d) 66.66

GIVEN:

A is 40% less than B

CALCULATION:

Let B be 100

A = B – 40% of B = 100 – 40% of 100 = 100 – 40 = 60

Required % = {(100 – 60)/60} × 100 = (40/60) × 100 = 66.66%

Therefore The correct answer is 66.66%.

Q58. Answer: (c) 55

Given:

Ratio of two numbers is = 5 : 9

Calculation:

Let two numbers be 5a and 9a

According to question,

Difference = 44

=> 9a – 5a = 44

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=> 4a = 44

=> a = 11

Therefore Smallest number = 5a = 5 × 11 = 55

Q59. Answer: (d) 5 : 3

Given:

Ratio of liquid A and liquid B = 7 : 2

Calculation:

As, Liquid A : Liquid B = 7 : 2

Quantity of Liquid A in 45 liters of mixture = {7/(7 + 2)} × 45 = (7/9) × 45 = 35 liters

Quantity of Liquid B in 45 liters of mixture = 45 – 35 = 10 liters

New Quantity of Liquid B = 10 + 11 = 21 liters

Therefore New Ratio = 35 : 21 = 5 : 3

Q60. Answer: (d) 35

Given:

Increase in population

First year = 25%, Second year = 36%

Formula used:

Average rate of increase (in %) = (1/2) × Total increment × 100

Calculation:

Let the initial population of the town be 100.

Population after first year = 100 + 25% of 100 = 100 + 25 = 125

Population after second year = 125 + 36% of 125 = 125 + 45 = 170

Total increment = (170 – 100)/100 = 7/10

Average rate of increase (in %) = (1/2) × (7/10) × 100 = 35%

Therefore The correct answer is 35%.

Alternate MethodCalculation:

Equivalent increase = 25 + 36 + (25 × 36)/100 = 70%

Average increase = 70/2 = 35%.

Therefore The average increase is 35%.

Q61. Answer: (b) 2

Given:

Sum = Rs. 10000

Amount = Rs. 14641

Rate = 20% per annum = 10% per 6 month

Calculation:

Amount = Principal{1 + (rate/100)}^(time)

=> 14641 = 10000{1 + (10/100)}^(time)

=> 14641/10000 = (11/10)^(time)

=> (11/10)^4= (11/10)^(time)

=> time = 4

AS, it was compounded half yearly

Therefore Actual time of investment = 4/2 = 2 years

Q62. Answer: (a) 195

Calculation:

Let the cost price be Rs. y

When he had a profit,

Selling price = cost price + profit % of cost price

=> y + 30% × y = 1.3y

When he had a loss,

Selling price = cost price – loss% of cost price
=> y – 10% × y = 0.9y
According to the question,
=> 1.3y – 0.9y = 60
=> 0.4y = 60
=> y = 150
Therefore Initial selling price = 1.3y = 1.3 × 150 = Rs.195
Alternate MethodCalculation:
Taking profit percentage as positive and the loss percentage as negative.
=> 30% - (-10%) = 60
=> 40% = 60
=> 1% = 1.5
S.P = 130% = 130 × 1.5 = 195
Therefore The selling price is Rs.195.

Q63. Answer: (c) 100 : 63

Given:
First discount = 30%
Second discount = 10%
Calculation:
Let Marked Price will be Rs.100
Effective discount = 30% + 10% – {(30 + 10)/100}% = 37%
Selling Price = 100 – 37% of 100 = 63
Required ratio = 100 : 63
Therefore The correct answer is 100 : 63.

Q64. Answer: (c) 6

Calculation:
We know that $(50)^2 = 2500$ and $(55)^2 = 3025$
And the Number 291N is $< (55)^2$
Also,
=> $(54)^2 = 2916$
So, N = 6
Therefore The correct answer is 6.

Q65. Answer: (a) 100

GIVEN:
Time taken by U, V, and W together to make a chair = 20 min
Time taken by U and V together to make a chair = 25 min
CALCULATION:
Time taken by U, V, and W together to make a chair = 20 min
Time taken by U and V together to make a chair = 25 min
Let total work = LCM of 20 and 25 = 100 units
Efficiency of U, V, and W together = 100/20 = 5 units/min
Efficiency of U and V together = 100/25 = 4 units/min
Efficiency of W = 5 – 4 = 1 unit/min
Therefore Time taken by W to make a chair alone = 100 × 1 = 100 min

Q66. Answer: (b) 57.6

Shortcut Trick
Relative speed in opposite direction = (Sum of Lengths) ÷ Time
Relative speed = (144 + 144) ÷ 9 = 288 ÷ 9 = 32 m/s
Since both trains have same speed, speed of each = 32 ÷ 2 = 16 m/s

Convert to km/hr: 16 × (18/5) = 288 ÷ 5 = 57.6 km/hr

Therefore The correct answer is 57.6 km/hr.

Alternate Method

Given:

Length of each train = 144 m

Time to cross = 9 sec

Direction = Opposite

Speed of each train = s (let)

Formula: Relative Speed = Total Distance ÷ Total Time

=> Relative Speed (Opposite Direction) = s1 + s2

=> Total Distance = Length of Train A + Length of Train B

=> Total Distance = 144 + 144 = 288 m

=> s + s = 288 ÷ 9

=> 2s = 32 m/s

=> s = 16 m/s

=> To convert m/s to km/hr, multiply by 18/5

=> Speed = 16 × 18/5 = 288 ÷ 5 = 57.6 km/hr

Therefore The correct answer is 57.6 km/hr.

Additional Information

Relative Speed Concepts

When two objects move in opposite directions, relative speed = s1 + s2. When moving in the same direction, relative speed = |s1 − s2|.

Unit Conversion Rules

To convert km/hr to m/s, multiply by 5/18. To convert m/s to km/hr, multiply by 18/5.

Trains Crossing Property

When a train crosses another train, the total distance covered is always the sum of the lengths of both trains.

Q67. Answer: (d) B

As shown in the bar graph, the average marks of B are 45 which is 2nd lowest

Q68. Answer: (d) 6 : 5

Division D's marks = 90

Division G's marks = 75

Therefore Required ratio = 90 : 75 = 6 : 5

Q69. Answer: (a) 125%

Division F's marks = 90

Division C's marks = 40

Therefore Required % = {(90 – 40)/40} × 100 = (5/4) × 100 = 125%

Q70. Answer: (a) 25%

Average marks of division C = 40

Average reduction in marks of division C = 10

Therefore Required % = (10/40) × 100 = 25%

Q71. Answer: (c) 68

Given:

Diagonal = D = 26 cm

Length = L = 10 cm

width = B = ?

Formula used:

Perimeter of rectangle = 2(L + B)

$D^2 = L^2 + B^2$

where D → diagonal of a rectangle

L → Length of a rectangle
B → Breadth of a rectangle
Calculation:
=> $D^2 = L^2 + B^2$
=> $26^2 = 10^2 + B^2$
=> $B^2 = 676 – 100$
=> $B^2 = 576$
=> B = 24
Therefore Perimeter of rectangle = 2(10 + 24) = 68 cm

Q72. Answer: (b) 10.5

Given:
The circumference of a circle = 66cm
Formula used:
Circumference of circle = 2πr
where r → radius of circle
Calculation:
=> 66 = 2 × (22/7) × r
Therefore r = 21/2 = 10.5 cm

Q73. Answer: (b) 352

Given:
Diameter = 14 cm; Height = 8 cm
Formula used:
Curved surface area = 2 × π × radius × height
Calculation:
Radius = diameter/2 = 14/2 = 7 cm
Curved surface area = 2 × π × radius × height
=> 2 × (22/7) × 7 × 8 = 352 cm^2
Therefore The correct answer is 352 cm2.

Q74. Answer: (c) (2 - √3)/2

Given:
angle E = 90° and angle F = 45°
Concept used:
Sum of all angles of a triangle = 180^?
tan 45^? = 1
Calculation:
By angle sum property of triangle,
angle D = 180° - (angle E + angle F) = 180° - (90° + 45°) = 45°
Therefore tan D - (√3/2) = tan 45° - (√3/2) = 1 - (√3/2) = (2 - √3)/2

Q75. Answer: (c) 8/17

Given:
Cos U = 8/17
Formula used:
cos θ = b/h
sin θ = p/h
where b → base
p → perpendicular
h → hypotenuse
Calculation:
=> Cos U = 8/17

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=> UV/UW = 8/17

Now,

Therefore SinW = UV/UW = 8/17

Q76. Answer: (d) Computers

Today computers are seen as a personal accessory - portable, powerful and simple to operate.

• A computer is an electronic device that is instructed to process numerical as well as non-numerical operations automatically through computer programming.

• It was designed by British mathematician Charles Babbage between 1833 and 1871.

• They are used as control systems for a large variety of industrial and consumer devices.

Q77. Answer: (a) Only B

Alexander Norén won the Golf 2017 BMW PGA Championship.

• Sweden's Alexander Noren won the PGA Championship by two shots.

• He currently plays on the PGA Tour and the European Tour.

• He was born on 12^(th) January 1982.

Q78. Answer: (a) crust

The boundaries of the plates of the earth's crust are the weak zones known as seismic or fault zones

• The boundaries of the earth's plate are the weak zones. Here earthquakes are more likely to occur. These weak zones are called seismic or fault zones.

• Seismic or fault zones of India: In India, the most of the threatened areas are:

• Kashmir

• Western and central Himalayas

• The whole of North-East

• Rann of Kutch

• Indo-Gangetic Plane.

• Some areas of south India.

Q79. Answer: (c) Inversely proportional to the square of

CONCEPT:

• Law of Universal Gravitation: It states that all objects attract each other with a force that is proportional to the masses of two objects and inversely proportional to the square of the distance that separates their centres.

• It is given mathematically as follows:

$F = Gm1m2/(R^2)$

Where m1 and m2 are the mass of two objects, G is the gravitational constant and R is the distance between their centres.

EXPLANATION:

• The gravitational force of attraction between two bodies is inversely proportional to the square of the distance between the two bodies.

Additional Information

• From the universal law of gravitation,

• The force is attractive in nature.

• The distance between the two objects is their centre-to-centre distance, and hence the force acts along the line joining the centres. Therefore, it is a central force.

• Non-contact force is a force that acts on an object without being in contact with the object. Since gravitational force acts without each body being in contact with another body, it is a non-contact force.

Q80. Answer: (a) 12.5

The correct answer is 12.5

EXPLANATION:

• The acceleration of a body that accelerates from 15 m/s to 40 m/s in 2 seconds is 12.5 m/s^2.

• Initial velocity = 15m/s and Final velocity = 40m/s.

• So net velocity = 40 -15(m/s) which is equal to 25m/s.

• Now formula for acceleration= net velocity/time

• Therefore here, acceleration = 25/2 = 12.5 m/s^2.

Q81. Answer: (b) Ministry of Corporate Affairs

In January 2018, Ministry of Corporate Affairs notified the Companies (Amendment) Act, 2017.

• The Companies (Amendment) Bill 2017 was introduced in March 2016 in Lok Sabha. After that, the Bill was presented to the standing committee for its report.

• The Standing Committee submitted its report in November 2016 after taking into consideration different views.

• The Companies (Amendment) Bill, 2017 passed by Lok Sabha on July 27, 2017, received the assent of Rajya Sabha on December 19, 2017.

• The Bill received President's assent on 03^(rd) January 2018. Thus, Companies (Amendment) Act, 2017 was born.

• The Companies (Amendment) Act, 2017 introduced several changes to the Companies Act 2013, rearranged provisions to improve corporate governance and ease of doing business in India.

The amendments under the Companies (Amendment) Act, 2017, are broadly aimed at:

1. Addressing difficulties in implementation owing to strict compliance requirements.

2. Facilitating ease of doing business in order to promote growth.

Q82. Answer: (c) NBFCs

As per the guidelines issued by the RBI in September 2017, all Peer-to-Peer lending (P2P) platforms will be treated as NBFCs.

• The Reserve Bank of India (RBI) issued directions for Non-Banking Financial companies (NBFC) that operate peer-to-peer (P2P) lending platforms.

• From now on, no NBFC can start or carry on the business of a P2P lending platform without obtaining a Certificate of Registration.

Q83. Answer: (b) New Zealand

New Zealand has developed world's first artificial intelligence politician named SAM.

• This virtual politician was created by Nick Gerritsen, a 49-year-old entrepreneur in New Zealand.

• It can answer a person's queries regarding local issues such as policies around housing, education, and immigration.

• It is constantly learning to respond to people through Facebook Messenger as well as a survey on its homepage.

Q84. Answer: (b) 83000

In October 2017, the biggest ever highway project was launched in India. It aims to develop approximately 83,000 kilometers of roads by the year 2022.

• A cost of about Rs. 7 lakh crore will be spent in this project.

• The plan also involves constructing of bridges, highways, and green-field expressways.

• It is aimed at pushing economic activity and generating at least 14.2 crore man-days across the country over the next five years.

• The programme includes the Bharatmala scheme, under which 34,800 km of highways would be constructed at the cost of Rs. 5.35 lakh crore.

Q85. Answer: (a) Cell wall

The cell wall is NOT a feature found in almost every cell.

• The cell wall is a rigid layer of polysaccharides lying outside the plasma membrane of the cells of plants, fungi, and bacteria.

• In the algae and higher plants, it consists mainly of cellulose.

• It provides the cell with both structural support and protection.

• It also acts as a filtering mechanism.

• A major function of the cell wall is to act as pressure vessels to prevent over-expansion of the cell when water enters.

Q86. Answer: (b) Lymph

Some amount of plasma, proteins and blood cells escape through the pores present in the walls of capillaries into the intercellular spaces in the tissue and form Lymph.

• The lymph is a medium of circulation in the human body like the blood.

• But lymph flows only in one direction, i.e. from the body tissues to the heart.

• Functions of the lymph are:

1. Transport's nutrients.

2. Bring CO2 wastes from tissue fluid to blood.

3. Protects the body from infection.

Q87. Answer: (b) Article 352

The correct answer is option 2 i.e. Article 352

• Under Article 352 of the Indian Constitution an emergency can be declared on the grounds of war, or external aggression or armed rebellion.

• Article 352 says that if the President is satisfied that a serious emergency exists in which the security of the country or any part of it is threatened by war or external aggression or armed rebellion, he may proclaim an emergency.

• The President cannot proclaim a war emergency unless the Union cabinet gives him in writing that such proclamation should be made.

Q88. Answer: (a) Annual Financial Statement

The correct answer is option 1 i.e. Annual Financial Statement.

• The constitution of India refers to the budget as the Annual Financial Statement.

• The budget is a statement of the estimated expenditure and receipts of the Union Government in a financial year.

• Provisions of the Budget are mentioned in Article 112.

Q89. Answer: (d) Both I and II

Saturated carbon compounds can form Straight and Branched types of chain structures.

• Saturated hydrocarbons are hydrocarbons that contain only single bonds between carbon atoms.

• Each carbon atom is bonded to as many hydrogen atoms as possible.

Q90. Answer: (d) All I, II and III

An atom can achieve octet by Sharing electron, Gaining electron and Losing electron.

• Octet rule: It says that atoms gain, lose, or share electrons with other atoms in order to fill their valence level with eight electrons.

• Electron loss or gain is entirely dependent on the atom concerned with it.

• Example:

1. Fluorine tries to complete its Octet by gaining an Electron.

2. Sodium tries to complete its Octet by losing an Electron.

Q91. Answer: (c) Myanmar

The correct answer is option 3 i.e. Myanmar.

• “Golden Land” is a popular sobriquet of Myanmar.

• Myanmar is known as “The Golden Land” to visitors because of its glittering pagodas everywhere.

• Myanmar, formerly known as Burma, is an exotic travel destination. Naypyitaw is the capital of Myanmar.

• It is the largest country of the mainland in South-East Asia peninsular sharing borders with Bangladesh, India, China, Laos, and Thailand.

Q92. Answer: (d) Moon Light

Moon Light won the Oscar Awards 2017 for the best picture category.

• Directed by Barry Jenkins, the film was based on LGBT theme.

Q93. Answer: (b) 7

7 agreements have been signed by India and Israel in July 2017.

They include-

S.No.	Title of MoU’s/Agreements
1	MoU between the Ministry of Drinking Water and Sanitation of the Republic of India and the Ministry of National Infrastructure, Energy and Water Resources of the State of Israel on National Campaign for Water Conservation in India
2	MoU between U.P. Jal Nigam, Government of Uttar Pradesh, of the Republic of India and the Ministry of National Infrastructure, Energy and Water Resources of the State of Israel on State Water Utility Reform in India

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3	MoU between the Department of Science & Technology, India and National Technological Innovation Authority, Israel for setting up of India-Israel Industrial R&D and Technological Innovation Fund (I4F).
4	India-Israel Development Cooperation - Three Year Work Program in Agriculture 2018-2020
5	MoU between the Indian Space Research Organisation (ISRO) and the Israel Space Agency (ISA)regarding cooperation in GEO-LEO Optical Link
6	MoU between the Indian Space Research Organisation (ISRO) and the Israel Space Agency (ISA) regarding cooperation in Electric Propulsion for Small Satellites
7	Plan of Cooperation Between the Indian Space Research Organisation (ISRO) and the Israel Space Agency (ISA) regarding cooperation in Atomic Clocks

Q94. Answer: (a) Ghoomar - Haryana

The correct answer is

Key Points

• Ghoomar is a traditional folk dance of Rajasthan, India and Sindh, Pakistan.

• The dance is chiefly performed by veiled women who wear flowing dresses called ghaghara.

• The dance typically involves performers pirouetting while moving in and out of a wide circle.

• The word ghoomna describes the twirling movement of the dancers and is the basis of the word ghoomar.

• Ghoomar is often performed on special occasions, such as at weddings and during Holi and sometimes lasts for hours.

Additional Information

• There are eight classical dances recognized by the Government of India

• These are Bharatnatyam, Kathakali, Kuchipudi, Kathak, Manipuri, Odissi, and Sattriya.

Dance	State	Noted Dancers
Bharatanatyam	Tamil Nadu	• Rukmini Devi Arundale - Mallika Sarabhai - Yamini Krishnamurthy
Kuchipudi	Andhra Pradesh	• Raja Reddy - Sonal Mansingh - Yamini Krishnamurthy
Kathak	Uttar Pradesh	• Shambhu Maharaj - Sitara Devi - Pandit Birju Maharaj
Manipuri	Manipur	• Guru Bipin Singh, - Rajkumar Singhajit Singh, - Charu Sija Mathur
Kathakali	Kerala	• Kalamandalam Ramankutty Nair - Kalamandalam Gopi - Madavoor Vasudevan Nair
Odissi	Odisha	• Kelucharan Mohapatra, - Sonal Mansingh
Mohiniyattam	Kerala	• T. Chinnammu Amma, - Kalamandalam Sugandhi
Sattriya	Assam	• Indira PP Bora - Maniram Datta Moktar

Q95. Answer: (b) Western Ghats

The Western Ghats are also known as 'Sahyadri'.

• They run in the north-south direction forming the western edge of the Deccan Plateau.

• They are about 1600km in extent, from the Tapi Valley in the North to almost Kanyakumari in the South.

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Q96. Answer: (b) Around the Pacific Ocean

The most active volcano in the world is located around the Pacific Ocean.

• Currently, Kilauea is the world's most active volcano, located in Hawaii.

• There are about 1500 active volcanoes in the world, most of which are located around Pacific Rim, known as Ring of Fire.

• Ring of Fire includes South American and North American plates, the Bougainville, Mariana Islands, New Zealand, Tonga, and the Philippines, Japan, Indonesia, etc.

Q97. Answer: (c) Champaran Satyagraha

Champaran Satyagraha (1917) is related to the Teenkathiya system.

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

• It was launched by Mahatma Gandhi.

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

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

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

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

Q98. Answer: (a) Warren Hastings

The famous Kosijura Case of Bengal happened in the reign of Warren Hastings.

• Kosijura Case of Bengal happened in 1779.

• A baboo named Kashinath was instigated to bring an action in the Supreme Court in August 1779, against his master, the Raja of Kosijurah, lying to the south of Calcutta.

• The Court despatched two sheriff's officers, with a body of eighty-six men, all armed with muskets or swords, who misbehaved and maltreated his servants, violated the sanctity of the zenana, and desecrated his family temple, packing up the idol with other lumber in a basket, and affixing the seal of the Court to it.

• Hastings considered that the time had at length arrived when he could no longer delay to vindicate the authority of the government and afford protection to the natives, whatever might be the hazard attending it.

• He instructed the military officer at Midnapore to intercept the whole party on their return, and march them to Calcutta, where they were immediately liberated.

• To prevent similar outrages, he likewise issued a proclamation, directing all landholders of every degree to consider themselves exempt from the jurisdiction of the Supreme Court, except in the two cases of their having bound themselves by agreement to submit to it, or being British subjects.

• The Supreme Court then proceeded to issue summons against the Governor-General himself and the members of the Supreme Council, but they peremptorily refused to obey it.

Q99. Answer: (c) Ministry of Finance

Economic Survey is published by the Ministry of Finance.

• Every year, before presenting the Union Budget, the Finance Ministry of India presents an Economic survey in Parliament.

• The Economic Survey throws light on-

• The performance on major development programs

• Annual economic development

• The policy initiatives took by the government

• The prospects of the economy in the short to medium term

Q100. Answer: (b) Credit Cards

The term "Smart Money" broadly refers to credit cards.

• Credit cards allow us to borrow money from the credit provider to pay for something without using your cash or savings in a bank account.

• There's a limit to borrow money (called credit limit) and one has to pay it back.

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