SSC CHSL Previous Paper 23 (Held On: 11 Jul 2019 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2019 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

The minister promise to looked into the matter of fuel emissions and air pollution.

(a) promised to look into
(b) promises to looking at
(c) No improvement
(d) promise to looks into

Q2. Select the most appropriate word to fill in the blank.

As he crossed the desert he nearly _____ to thirst when he was forced to go without water for four days and five nights.

(a) submerged
(b) succumbed
(c) survived
(d) subsisted

Q3. Select the most appropriate antonym of the given word.

HOPE

(a) courage
(b) confidence
(c) daring
(d) despair

Q4. Select the most appropriate antonym of the given word.

ABSTRACT

(a) vague
(b) intangible
(c) elusive
(d) concrete

Q5. Select the most appropriate synonym of the given word.

DEDICATION

(a) abrogation
(b) commitment
(c) contentment
(d) trepidation

Q6. Identify the segment in the sentence which contains the grammatical error.

The team began searching for reasons for their poor performance in the tournament.

(a) The team began
(b) for their poor performance
(c) in the tournament
(d) searching for reasons

Q7. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. We had already covered half the distance when we reached a three-road junction.
B. I was worried it might pounce on us.
C. But thankfully we picked up speed and it got left behind.
D. Suddenly, a barking dog began to chase the bike for some distance.

(a) DACB
(b) ADBC
(c) ABDC
(d) BDAC

Q8. Select the wrongly spelt word.

(a) fourtieth
(b) seventeenth
(c) fifteenth
(d) fourteenth

Q9. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

My professor gave me a lot of useful advices when I was writing my research paper.

(a) gave me a lots of useful advices
(b) give me lots of useful advices
(c) gave me a lot of useful advice
(d) No improvement

Q10. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Using matches however came much later.
B. The first great discovery that man probably made was that of fire.
C. In olden times fires were made by rubbing two flints against each other till a spark was produced.
D. And this spark set fire to dry straw, leaves or wood.

(a) BDAC
(b) ADBC
(c) BCDA
(d) CBDA

Q11. Select the correct passive form of the given sentence.

Someone gave him a new case for his credit cards.

(a) He was given a new case for his credit cards.
(b) He has given a new case for his credit cards
(c) He is given a new case for his credit cards
(d) He had given a new case for his credit cards.

Directions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

If winter seems to be the season for migratory birds to flock to warmer climates, summer time is ideal for wetland birds. (1) ____ fifty kilometers from Warangal in Telangana, Pakhal lake (2) __ to be playing host to (3) __ wide variety of flora and fauna (4) __

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season. Wetland birds from North and Central India come (5) ____ the south in search of larger water bodies.

Q12. Select the most appropriate option to fill in blank No.1.

(a) Totally
(b) Not
(c) Nearly
(d) But

Q13. Select the most appropriate option to fill in blank No.2.

(a) was seemed
(b) seems
(c) will seems
(d) seem

Q14. Select the most appropriate option to fill in blank No.3.

(a) a
(b) one
(c) an
(d) the

Q15. Select the most appropriate option to fill in blank No.4.

(a) their
(b) these
(c) that
(d) this

Q16. Select the most appropriate option to fill in blank No.5.

(a) about
(b) away
(c) below
(d) towards

Q17. Select the correct indirect form of the given sentence.

The interviewer asked Ramesh, "Do you have any idea about our products?"

(a) The interviewer asked Ramesh if they had any idea about his products.
(b) The interviewer asked Ramesh if he had any idea about their products.
(c) The interviewer asked Ramesh that if he had any idea about the products.
(d) The interviewer asked Ramesh if he have any idea about their products.

Q18. Select the most appropriate word for the given group of words

A person who sells and arranges cut flowers

(a) nutritionist
(b) florist
(c) agriculturist
(d) botanist

Q19. Select the most appropriate synonym of the given word.

ACCURATE

(a) precise
(b) real
(c) genuine
(d) sincere

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Q20. Select the most appropriate meaning of the given idiom

make short work of something

(a) reduce the size
(b) dispose of quickly
(c) shorten some dress
(d) edit carefully

Q21. Select the correctly spelt word.

(a) manageble
(b) manageable
(c) managable
(d) manegeable

Q22. Select the most appropriate word to fill in the blank.

Once again, higher food inflation, in combination with fuel and power, provided _____ to the wholesale inflation.

(a) impetus
(b) impression
(c) inspiration
(d) insight

Q23. Select the most appropriate meaning of the given idiom

make no headway

(a) unable to progress ahead
(b) unable to overtake anyone
(c) forced to fix a new goal
(d) check if the head can pass through

Q24. Identify the segment in the sentence which contains the grammatical error.

She was unable to produce sufficient evidences to support her accusations.

(a) She was unable
(b) to produce
(c) sufficient evidences to
(d) support her accusations

Q25. Select the most appropriate word for the given group of words

One who draws or produces maps

(a) draftsman
(b) photographer
(c) cartographer
(d) designer

GENERAL INTELLIGENCE

Q26. Which number will replace the question mark (?) in the following series?

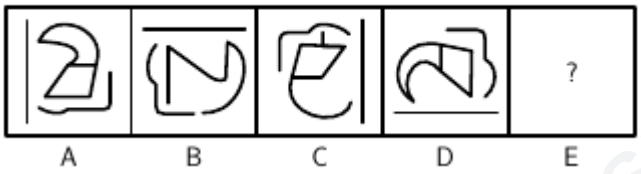
2, 4, 7, 12, 19, 30, ?

(a) 38
(b) 36
(c) 43
(d) 47

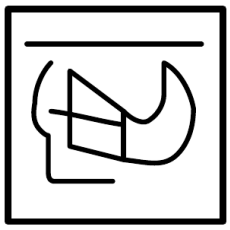
Q27. Select the Answer Fig. that will come next in the following Problem Fig. series.

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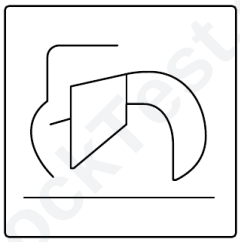
Problem Fig.



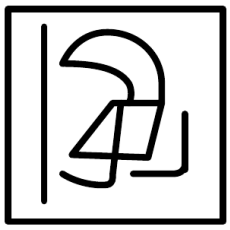
(a)



(b)



(c)



(d)



Q28. Three of the following four numbers are alike in a certain way and one is different.
Pick the number that is different from the rest.

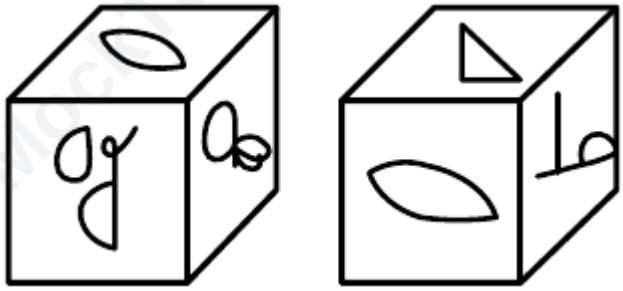
(a) 95
(b) 85
(c) 65
(d) 75

Q29. Three different positions of the same dice are shown. Select the pattern that will be on the face opposite to the one having

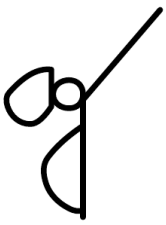
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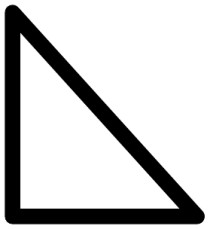
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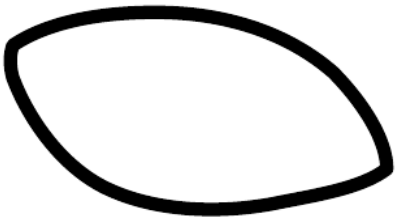
(a)



(b)

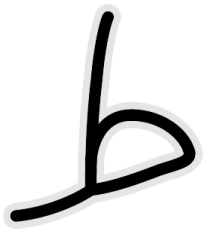


(c)



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(d)



Q30. Which letter-pair will replace the question mark (?) in the following series?

FJ, HL, ?, LP, NR

(a) GM
(b) IN
(c) JM
(d) JN

Q31. In a code language, GOURD is written as IQSTF. How will APHID be written as in that language?

(a) CRFKF
(b) CRFLF
(c) CRJKF
(d) CREKF

Q32. Which two signs should be interchanged in the following equation to make it correct?

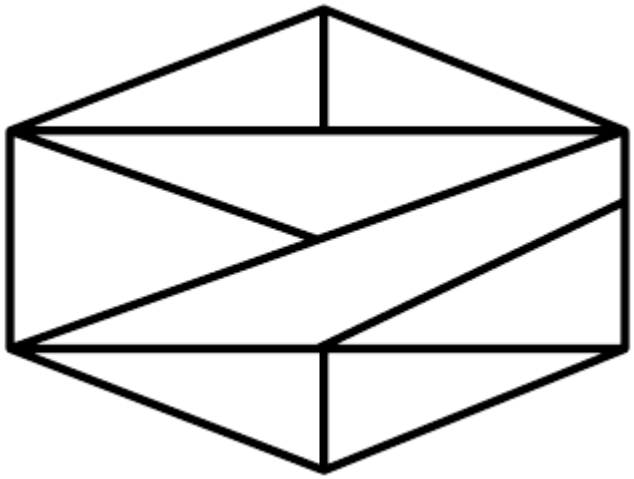
5 + 8 - 30 × 10 ÷ 2 = 240

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

Q33. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(a) Jeep
(b) Ship
(c) Truck
(d) Car

Q34. How many triangles are present in the following figure?



(a) 10
(b) 9
(c) 13
(d) 11

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Q35. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

29, 31

(a) 20, 21
(b) 15, 17
(c) 11, 13
(d) 23, 25

Q36. Arrange the following words in the sequence as they appear in English dictionary order.

1. Mercury
2. Earth
3. Jupiter
4. Venus
5. Mars

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

Q37. If BARBER is coded as 116 and GLINT is coded as 73, then how will LIZARD be coded as?

(a) 92
(b) 90
(c) 91
(d) 93

Q38. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

(a) DFHJ
(b) JLNP
(c) CEGI
(d) QSUV

Q39. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

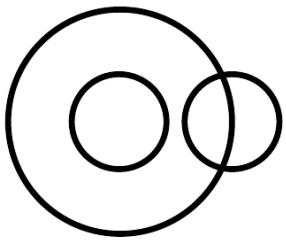
Cement : Building

(a) Book : Author
(b) Pen : Pencil
(c) Wood : Furniture
(d) Wire : Electricity

Q40. Select the Venn diagram that best illustrates the relationship between the following classes.

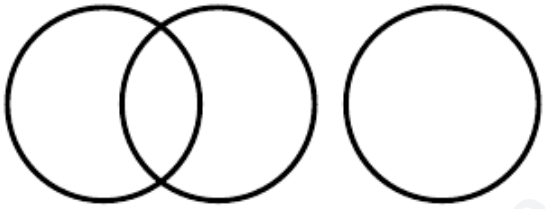
Rats, Frogs, Snakes

(a)

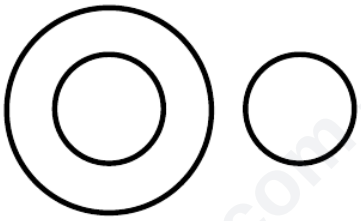


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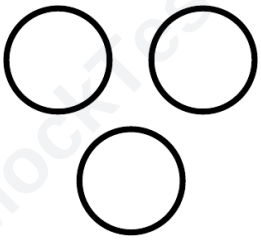
(b)



(c)



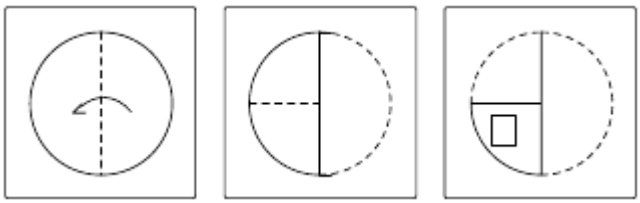
(d)



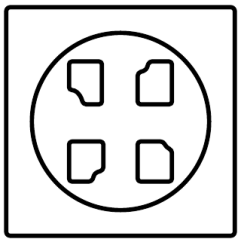
Q41. 'ENGINEER' is related to 'BUILDING' in the same way as 'WRITER' is related to '_____'.

(a) BOOK
(b) PAPER
(c) INK
(d) PEN

Q42. A paper is folded and cut as shown in the following figures (X, Y and Z). Select the option that depicts how this paper will appear when unfolded?

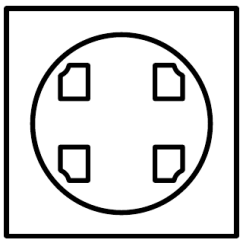


(a)

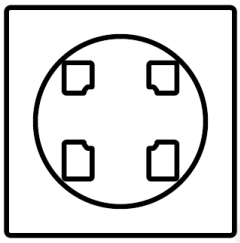


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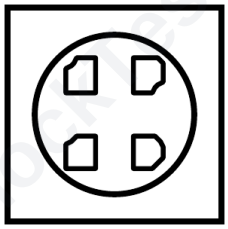
(b)



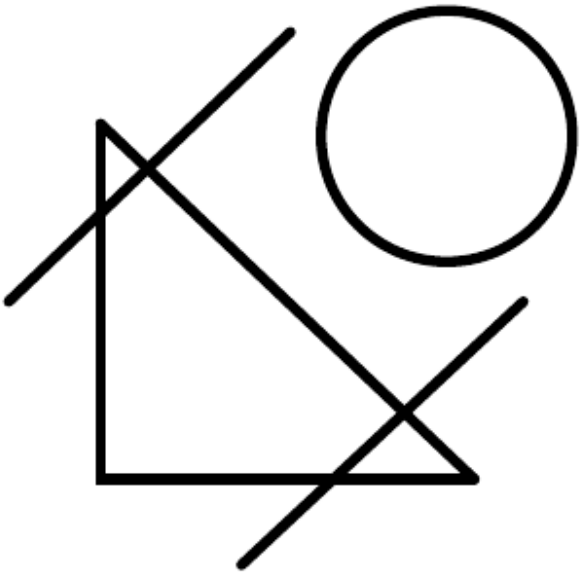
(c)



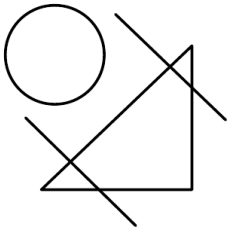
(d)



Q43. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

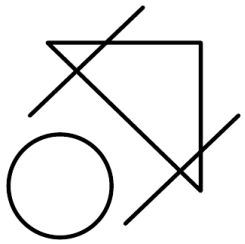


(a)

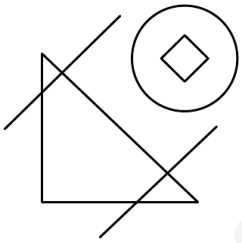


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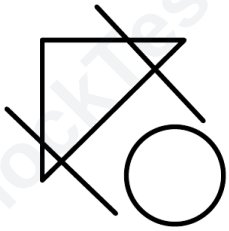
(b)



(c)



(d)



Q44. Select the option that is related to the third letter-pair in the same way as the second letter-pair is related to the first letter-pair.

DJ : HT : : HM : ?

(a) LP
(b) LW
(c) JK
(d) PY

Q45. What was the day of the week on 15 August 2013?

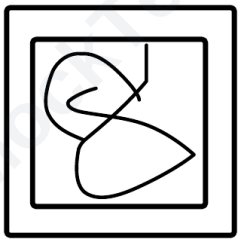
(a) Thursday
(b) Tuesday
(c) Wednesday
(d) Monday

Q46. Select the option in which the given figure (X) is embedded.

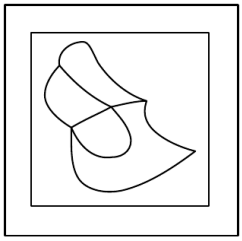
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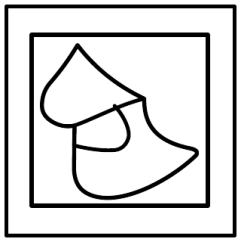
(a)



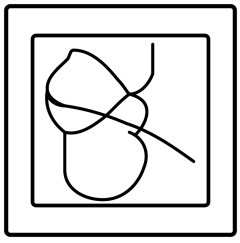
(b)



(c)



(d)



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Q47. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(49, 81, 121)

(a) (16, 64, 100)
(b) (16, 25, 49)
(c) (36, 64, 100)
(d) (9, 4, 8)

Q48. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(16, 36, 64)

(a) (12, 32, 50)
(b) (9, 25, 62)
(c) (10, 30, 58)
(d) (6, 36, 80)

Q49. Anil and Abhay are brothers. Swati is the daughter of Samir and sister of Anil. How is Abhay's mother related to Samir?

(a) Sister-in-law
(b) Wife
(c) Mother
(d) Sister

Q50. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All hens are eggs.

All birds are eggs.

All eggs are lions.

Conclusions:

I. All hens are lions.

II. Some lions are eggs.

III. All birds are lions.

(a) Only conclusions II and III follow.
(b) Only conclusions I and II follow.
(c) All the conclusions follow.
(d) Only conclusion I follows.

QUANTITATIVE APTITUDE

Q51. The ten digit number 2x600000y8 is exactly divisible by 24. If $X \neq 0$ and $y \neq 0$, then the least value of $(x + y)$ is equal to:

(a) 9
(b) 2
(c) 5
(d) 8

Q52. An article having marked price, Rs. 900, was sold for Rs. 648 after two successive discounts. The first discount was 20%. What was the percentage rate of the second discount?

(a) 5
(b) 10

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(c) 12.5
(d) 15

Q53. The value of (18.43 × 18.43 - 6.57 × 6.57)/11.86 is:
(a) 26
(b) 25
(c) 23.62
(d) 24.12

Q54. O, G, I and H are respectively the circumcentre, centroid, incentre and orthocentre of an equilateral triangle. Which of these points are identical?
(a) O and I only
(b) O and G only
(c) O, G, I and H
(d) O, G and H only

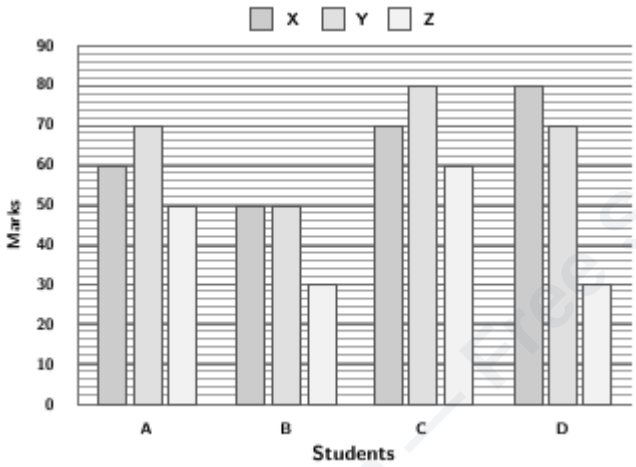
Q55. If $(3x + 1)^3 + (x – 3)^3 + (4 – 2x)^3 + 6(3x + 1)(x – 3)(x – 2) = 0$, then x is equal to:
(a) -1/2
(b) -1
(c) 1/2
(d) 1

Q56. For all i's, i = 1, 2, 3, …, 20 lying between 0° and 90°, it is given that, sin prop. to 1 + sin prop. to 2+ sin prop. to 3……. + sin prop. to 20= 20
What is the value (in degrees) of (prop. to 1 + prop. to 2 + prop. to 3 + … … + prop. to 20)?
(a) 1800
(b) 20
(c) 900
(d) 0

Q57. During a practice session in a stadium an athlete runs along a circular track and her performance is observed by her coach standing at point on the circle and also by her physiotherapist standing at the centre of the circle. The coach finds that she covers an angle of 72° in 1 min. what will be the angle covered by her in 1 second according to the measurement made by her physiotherapist?
(a) It depends on the position of the coach on the circular track
(b) 1.2°
(c) 4.8°
(d) 2.4°

Q58. The full marks for a paper is 300. The break-up of the marks into theory (X), practical (Y) and project (Z), Which are the three components of evaluation is 6 : 5 : 4. In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate. The marks scored by four students A, B, C and D are shown in the given Bar Graph.

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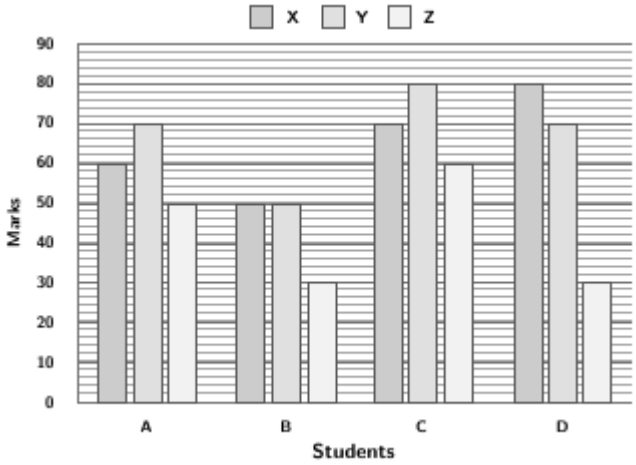
Arrange the students B, C and D according to the ascending order of the aggregate marks scored by them.

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

Q59. ΔABC ~ ΔDEF and their perimeters are 64 cm and 48 cm respectively. What is the length AB, if DE is equal to 9 cm?

(a) 16 cm
(b) 12 cm
(c) 17.5 cm
(d) 18 cm

Q60. The full marks for a paper is 300. The break-up of the marks into theory (X), practical (Y) and project (Z), Which are the three components of evaluation is 6 : 5 : 4. In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate. The marks scored by four students A, B, C and D are shown in the given Bar Graph.



Who among the students could not pass?

(a) B only
(b) B and C
(c) A only
(d) B and D

Q61. A certain sum was invested on simple interest. The amount to which it had grown in five years was 1 1/4 times the amount to which it had grown in three years. The percentage rate of interest was:

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

(d) 10%

Q62. What is the value of $\text{cosec}^2 30° + \sin^2 45° + \sec^2 60° + \tan^2 30°$?

(a) 8
(b) 25/3
(c) 53/6
(d) 9

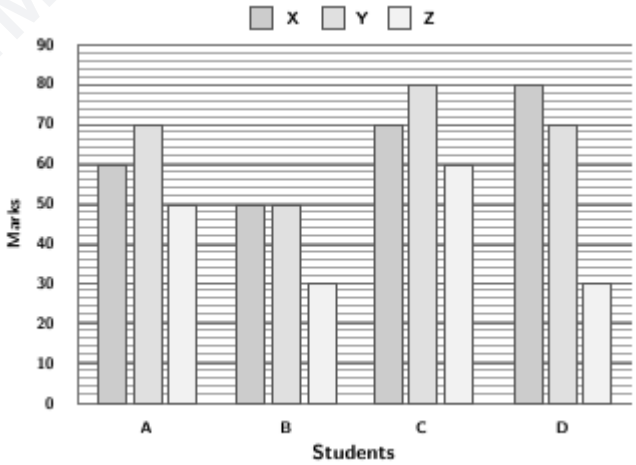
Q63. For $0° \le \theta \le 90°$, what is θ, when $\sqrt{3} \cos\theta + \sin\theta = 1$?

(a) 90°
(b) 0°
(c) 45°
(d) 30°

Q64. The average of 1088 real numbers is zero. At most how many of them can be negative?

(a) 544
(b) 88
(c) 1087
(d) 100

Q65. The full marks for a paper is 300. The break-up of the marks into theory (X), practical (Y) and project (Z), Which are the three components of evaluation is 6 : 5 : 4. In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate. The marks scored by four students A, B, C and D are shown in the given Bar Graph.



How much percentage marks more than B has C scored in practical?

(a) 40
(b) 30
(c) 20
(d) 60

Q66. The ratio of the square of a number to the reciprocal of its cube is 243/16807. What is the number?

(a) 2/7
(b) 7/3
(c) 3/7
(d) 5/7

Q67. A can complete a piece of work in 20 days and B can complete 20% of the work in 6 days. If they work together in how many days can they finish 50% of the work, if they work together?

(a) 6
(b) 12
(c) 8
(d) 9

Q68. If 10/7(1 - 2.43 × 10^(- 3)) = 1.417 + x, then x is equal to:

(a) 0.0417
(b) 0.417
(c) 0.0081
(d) 0.81

Q69. A purchased two articles for Rs. 200 and Rs. 300 respectively and sold at gains of 5% and 10% respectively. What was his overall gain percentage?

(a) 9
(b) 5
(c) 6
(d) 8

Q70. With reference to a number greater than one, the difference between itself and its reciprocal is 25% of the sum of itself and its reciprocal. By how much percentage (correct one decimal place) is the fourth power of the number greater than its square?

(a) 66.7
(b) 57.8
(c) 62.5
(d) 64.5

Q71. The simplified value of {11/4 of (21/3 ÷ 12/5) - 15/12} + 1/9 ÷ 21/3 + 2/7 + 1/6 is:

(a) 7/6
(b) 3/2
(c) 1
(d) 7/3

Q72. AB and CD are two chords of a circle which intersect at a point O inside the circle. It is given that, AB = 10 cm, CO = 1.5 cm and DO = 12.5 cm. What is the ratio between the larger and smaller among AO and BO?

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

Q73. The two diagonals of a rhombus are respectively, 14 cm and 48 cm. The perimeter of the rhombus is equal to:

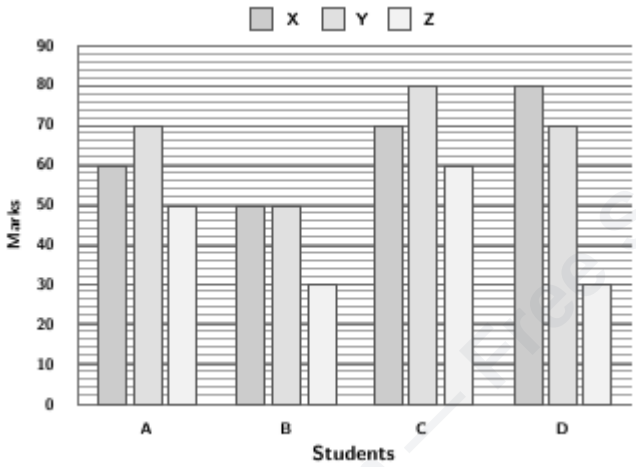
(a) 120 cm
(b) 80 cm
(c) 160 cm
(d) 100 cm

Q74. The platform of a station 400 m long starts exactly where the last span of a bridge 1.2 km long ends. How long will a train 200 m long and travelling at the speed of 72 km/h take to cover the distance between the starting point of the span of the bride and the far end of the platform?

(a) 1.6 min
(b) 1.8 min
(c) 1.5 min
(d) 1.2 min

Q75. The full marks for a paper is 300. The break-up of the marks into theory (X), practical (Y) and project (Z), Which are the three components of evaluation is 6 : 5 : 4. In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate. The marks scored by four students A, B, C and D are shown in the given Bar Graph.

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What is the average marks of the four students in theory?

(a) 70
(b) 65
(c) 60
(d) 68

GENERAL AWARENESS

Q76. Hypokalaemia is caused by the deficiency of _____.

(a) Calcium
(b) Iodine
(c) Iron
(d) Potassium

Q77. Which of the following texts gives a detailed account of the kings of Kashmir?

(a) Rajatarangini
(b) Katha Sarit Sagar
(c) Dipavamsa
(d) Vinaya Pitaka

Q78. In the context of the Internet, what is the full form of MAN?

(a) Makeshift Area Network
(b) Metropolitan Area Network
(c) Massive Area Network
(d) Master Area Network

Q79. Rovers Cup is associated with which of the following sports?

(a) Swimming
(b) Lawn Tennis
(c) Football
(d) Snooker

Q80. Who was the founder of Bahujan Samaj Party?

(a) Devi Lal
(b) Munshi Ram
(c) Lakshman Singh
(d) Kanshi Ram

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Q81. Which one of the following lakes and their locations is INCORRECTLY matched?

(a) Lonar-Maharashtra
(b) Loktak-Manipur
(c) Chilika-Andhra Pradesh
(d) Roopkund-Uttarakhand

Q82. Which of the following classical dances and their places of origin is INCORRECTLY matched?

(a) Mohiniattam-Kerala
(b) Sattriya-Assam
(c) Kuchipudi-Odisha
(d) Bharatanatyam-Tamilnadu

Q83. Justice Rajinder Sachar Committee was set up to study _____.

(a) the environmental issues of the western ghats in India
(b) the impact of globalisation on India
(c) the standards maintained by government hospitals in India
(d) the socio-economic status of Muslim community in India

Q84. In the context of the banking system in India, what does IFSC stand for?

(a) Indian Financial Social Code
(b) Indian Financial Structural Code
(c) Indian Functional System Calculation
(d) Indian Financial System Code

Q85. The head quarter of Federation Internationale de Football Association (FIFA) is located in _____.

(a) Amsterdam
(b) Madrid
(c) Paris
(d) Zurich

Q86. Which country has become the second country in the world to declare a climate and biodiversity emergency?

(a) Bhutan
(b) Canada
(c) Ireland
(d) Norway

Q87. Pullela Gopichand is the chief national coach of the Indian _____ team as of June 2019.

(a) Archery
(b) Badminton
(c) Basketball
(d) Table tennis

Q88. Which of the following is a western flowing river?

(a) Gomti
(b) Krishna
(c) Mahanadi
(d) Sabarmati

Q89. Which of the following is an example of terrestrial habitat?

(a) Swamp
(b) Lagoon
(c) Grassland
(d) Pond

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Q90. Who was sworn in as the new chief minister of Andhra Pradesh on 30th May 2019?

(a) Raghuveera Reddy
(b) Chandrababu Naidu
(c) Pawan Kalyan
(d) YS Jagan Mohan Reddy

Q91. Who among the following was included in Facebook 'Hall of Fame 2019' for detetcing a Whatapp Bug that violated privacy of a user?

(a) Jeje Lalpekula
(b) Baichung Bhutia
(c) Zonel Sougaijam
(d) Sonam Wangchuk

Q92. In May 2019, the kilogram was redefined for the first time in 130 years. It will now be redefined by a fundamental property of nature known as:

(a) Magnetic Constant
(b) Electric Constant
(c) Gravitational Constant
(d) Planck's Constant

Q93. The headquarters of computer technology giant, Intel is in _____.

(a) Frankfurt
(b) Tokyo
(c) California
(d) London

Q94. Which one of the following is NOT a tributary of river Kaveri?

(a) Amravati
(b) Bhavani
(c) Kabini
(d) Vaigai

Q95. The Salal Project is constructed on the river _____.

(a) Manjra
(b) Bhima
(c) Chenab
(d) Krishna

Q96. The Samkhaya School of Philosophy was founded by _____.

(a) Patanjali
(b) Gautama
(c) Kumarila Bhatta
(d) Kapila

Q97. Who among the following was re-elected as the Prime Minister of Israel April 2019?

(a) Sheikh Hasina
(b) Benjamin Netanyahu
(c) Ranil Wickremesinghe
(d) Imad Khamis

Q98. Which of the following dances is in UNESCO's Intangible Heritage List?

(a) Fugdi
(b) Jhoomar
(c) Dalkhai
(d) Chhau

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Q99. According to which Article enshrined in the Constitution of India shall the council of ministers be collectively responsible to the Lok Sabha?

(a) Article 29
(b) Article 75
(c) Article 302
(d) Article 35

Q100. In the cabinet of the 17th Lok Sabha, who has been appointed as the Finance Minister?

(a) Nirmala Sitharaman
(b) Amit Shah
(c) Smriti Irani
(d) Rajnath Singh

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) promised to look into

• The correct answer is Option 1.
• The given sentence should be in the past tense i.e. 'promise' must be replaced by 'promised'. The infinitive verb follows the structure 'TO + V1' so replace 'to looked' with 'to look'.
• Therefore, the correct sentence is 'The minister promised to look into the matter of fuel emissions and air pollution.'

Q2. Answer: (b) succumbed

The correct answer is Option 2.
• The meaning of the given words:
• Submerged: Underwater, below the surface of a liquid.
• Succumbed: To die, to give up.
• Survived: To continue to live.
• Subsisted: To survive, to retain a certain state.
As the sentence is saying that the person was forced to go without water for four days and five nights, 'succumbed' is the right word to fill in the blank.

Q3. Answer: (d) despair

• The correct answer is Option 4.
• The meaning of the given words:
• Hope: the belief or expectation.
• Courage: The quality of being confident.
• Daring: Adventurous, courageous.
• Despair: To give up as beyond hope or expectation.

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• Therefore, the word 'despair' is the antonym and all other options are not relevant.

Q4. Answer: (d) concrete

The correct answer is Option 4.

Explanation:

Abstract: That which is apart from practice or reality.

• Vague: Not clearly expressed; stated in indefinite terms.

• Intangible: incapable of being perceived by the senses; incorporeal.

• Elusive: Evading capture, rarely seen.

• Concrete: Real, actual, tangible.

Therefore, out of given options 'concrete' is the antonym of the given word.

Q5. Answer: (b) commitment

• The correct answer is Option 2.

• The meaning of the given options:

• Dedication: To commit to a particular course of thought or action

• Abrogation: The repeal or abolition of a law, right, or agreement

• Commitment: State of being pledged or engaged

• Contentment: the state or degree of being contented or satisfied

• Trepidation: A fearful state; agitation

• Therefore, out of given options, the best alternative to the word 'dedication' is 'commitment'.

Q6. Answer: (b) for their poor performance

• The correct answer is Option 2).

• The error lies in the wrong usage of the pronoun 'their' and should be replaced by 'Its' because team is a collective noun and all the members of the are working as one unit so its will be treated as a singular noun and the pronoun to be used is 'it'.

• Therefore, the correct sentence is 'The team began searching for reasons for its poor performance in the tournament.'

Q7. Answer: (b) ADBC

• The correct answer is Option 2.

• Sentence A is the only independent sentence among the given sentences, so A is the first sentence.

• Sentence A is talking about a journey which is continued by sentence D with an incident mentioning about dog chasing the bike.

• This sequence of AD is given only in option 2 i.e. ADBC

Q8. Answer: (a) fourtieth

• The correct answer is Option 1.

• The correct spelling is 'fortieth'

Q9. Answer: (c) gave me a lot of useful advice

• The correct answer is Option 3.

• The noun advice can be countable or uncountable. In more general, commonly used, contexts, the plural form will also be 'advice'.

• Therefore, all the options except 3 get eliminated.

Q10. Answer: (c) BCDA

• The correct answer is Option 3.

• Among the given sentences, there are two independent sentences i.e. B & C. But sentence B is introducing the subject i.e. 'fire' so B is the first sentence.

• Sentence C is talking about how the spark was produced which is continued by sentence D.

• Therefore, the correct sequence BCDA is given in option 3.

Q11. Answer: (a) He was given a new case for his credit cards.

• The correct answer is Option 1.

• The given sentence when changed into its passive form the structure followed is 'was + V3'.

• Therefore, only Option 1 follows the structure and is grammatically correct.

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Q12. Answer: (c) Nearly

The correct answer is option 3 i.e. Nearly.
Contextually only it can be the answer of the given blank.
Nearly- very close to; almost.

Q13. Answer: (b) seems

The correct answer is option 2 i.e. seems.
Grammatically only this is correct.
will + v1, Was + v3 (seen), singular sub - singular verb should come.
The chosen option is correct.

Q14. Answer: (a) a

The correct answer is option 1 i.e. A.
A wide variety is a phrase and it always occurs in this form.
So, the chosen option is correct.

Q15. Answer: (d) this

The correct answer is option 4 i.e. This.
Contextually only this can be the suitable choice to choose as the answer.
This shows current situation and we are talking about the it so this will be correct choice.

Q16. Answer: (d) towards

The correct answer is option 4 i.e. towards.
Whenever we have to point out the direction we use adverb like towards, inwards, outwards etc.
So, the towards will be the right choice here.

Q17. Answer: (b) The interviewer asked Ramesh if he had any idea about their products.

The correct answer is option 2.
If will be used as the conjunction.
have will be changed into had.
sentence will be in assertive form.
He will be used as the subject.
All these are being fulfilled by option 2.
So, this is the correct choice.

Q18. Answer: (b) florist

The correct answer is option 2 i.e. florist.
Explanation:
• Let's look at the meaning of the given options.
• nutritionist- a person who studies or is an expert in nutrition.
• florist- a person who sells and arranges cut flowers.
• agriculturist-someone concerned with the science or art or business of cultivating the soil.
• botanist- an expert in or student of the scientific study of plants.
• Hence from the given meanings, we find that the correct answer is Option 2 i.e florist.

Q19. Answer: (a) precise

The correct answer is option 1 i.e. precise.
Explanation:
ACCURATE- (especially of information, measurements, or predictions) correct in all details; exact.
precise- marked by exactness and accuracy of expression or detail.
Chosen option best expresses the meaning of the given word.

Q20. Answer: (b) dispose of quickly

The correct answer is option 2 i.e. dispose of quickly.
Key Points

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• The phrase "make short work of something" means to quickly and efficiently complete a task or overcome a challenge.

It implies that the person involved is highly skilled or efficient, allowing them to accomplish the task or overcome the challenge in a short amount of time or with minimal effort.

• It often conveys a sense of ease or mastery in handling the situation.

• Example: The experienced chef made short work of preparing the elaborate five-course meal for the guests.

• Thus, the correct answer is Option 2.

Q21. Answer: (b) manageable

The solution is in Hindi. Read it online.

Q22. Answer: (a) impetus

The correct answer is option 1) i.e. impetus.

• impetus: something that makes a process or activity happen or happen more quickly. This fits best in the context of the given sentence, hence, it will be used to fill in the blank.

• impression: an effect produced on someone.

• inspiration: the process of being mentally stimulated to do or feel something.

• insight: an accurate and deep understanding.

Q23. Answer: (a) unable to progress ahead

The correct answer is option 1) i.e. unable to progress ahead.

• make no headway is used when someone is not making any progress ahead.

• This is opposite of make headway which means to move forward or make progress.

Q24. Answer: (c) sufficient evidences to

The correct answer is option 3) i.e. sufficient evidences to.

• Evidence is an uncountable noun. Hence, we cannot make a plural of it by adding 's' at the end of it.

To make Plural: 'pieces of' will be added i.e 'pieces of evidence'.

• So, the correct sentence will be: She was unable to produce sufficient evidence to support her accusations.

• Other uncountable nouns are: Furniture, information, luggage, jewellery, scenery, postage, percentage, etc.

Q25. Answer: (c) cartographer

The correct answer is option 3) i.e. cartographer.

• Cartographer: a person who draws or produces maps.

• Draftsman: a person who drafts legal documents.

• Photographer: a person who takes photographs, especially as a job.

• Designer: a person who plans the look or workings of something prior to it being made.

Q26. Answer: (c) 43

The pattern followed here is:

The next number in the given series is obtained by adding a consecutive prime number to the previous number.

2 + 2 = 4,

4 + 3 = 7,

7 + 5 = 12,

12 + 7 = 19,

19 + 11 = 30,

30 + 13 = 43

Hence, “43” is the correct answer.

Q27. Answer: (c) [figure]

In the given series, the figure is being rotated at 90 degrees in the clockwise direction.

Hence, “option 3” is the correct answer.

Q28. Answer: (d) 75

The pattern followed here is:

All the numbers are multiples of prime numbers except for 75.

19 × 5 = 95,
17 × 5 = 85,
13 × 5 = 65,
15 × 5 = 75
Hence, “75” is the correct answer.

Q29. Answer: (b) [figure]

The patterns in options 1 and 3 are adjacent to the pattern in question. Therefore, options 1 and 3 get eliminated.
Now, we end up with the below situation after rotation of the second position of the given dice:
This is not possible.
Therefore, option 4 gets eliminated.
Hence, the figure in option 2 is the correct answer.

Q30. Answer: (d) JN

The pattern followed here is:
Hence, “JN” is the correct answer.

Q31. Answer: (a) CRFKF

The pattern followed here is:
Similarly,
Hence, “CRFKF” is the correct answer.

Q32. Answer: (b) × and –

Given: 5 + 8 - 30 × 10 ÷ 2 = 240
1) + and –
5 – 8 + 30 × 10 ÷ 2
= 5 – 8 + 30 × 5
= 5 – 8 + 150
= 155 – 8
= 147 ≠ 240
2) × and –
5 + 8 × 30 – 10 ÷ 2
= 5 + 240 – 5
= 245 – 5
= 240
3) + and ÷
5 ÷ 8 – 30 × 10 + 2
= 0.625 – 300 + 2
= 2.625 - 300
= -297.375 ≠ 240
4) × and ÷
5 + 8 - 30 ÷ 10 × 2
= 5 + 8 – 3 × 2
= 5 + 8 – 6
= 13 – 6
= 7 ≠ 240
Hence, ‘‘× and –’’ is the correct answer.

Q33. Answer: (b) Ship

Except Ship, all others are vehicles for road transport.
Ship is a vehicle for water transport.
Hence, “ship” is the correct answer.

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Q34. Answer: (d) 11

Total triangles are:

ABG, ACG, ABC, BEH, BHC, BEC, CDE, CID, EFI, DIF, DEF.

Hence, “11” is the correct answer.

Q35. Answer: (c) 11, 13

The pattern is as follows:

29, 31 → both are consecutive prime numbers.

1) 20, 21 → No number is a prime number.

2) 15, 17 → 15 is not a prime number.

3) 11, 13 → both are consecutive prime numbers.

4) 23, 25 → 25 is not a prime number.

Hence, “11, 13” is the correct answer.

Q36. Answer: (a) 2, 3, 5, 1, 4

The correct sequence as per English dictionary is as follows:

2) Earth

3) Jupiter

5) Mars

1) Mercury

4) Venus

Hence, “2, 3, 5, 1, 4” is the correct answer.

Q37. Answer: (a) 92

The pattern followed here is:

Reverse letter-pair combination for BARBER: YZIYVI

Now, Y + Z + I + Y + V + I = 25 + 26 + 9 + 25 + 22 + 9 = 116

Thus, the code for BARBER is 116.

Reverse letter-pair combination for GLINT: TORMG

T + O + R + M + G = 20 + 15 + 18 + 13 + 7 = 73

Thus, the code for GLINT is 73.

Similarly,

Reverse letter-pair combination for LIZARD: ORAZIW

O + R + A + I + Z + W = 15 + 18 + 1 + 9 + 26 + 23 = 92

Hence, 92 is the code for LIZARD.

Q38. Answer: (d) QSUV

The pattern followed here is:

1) DFHJ → D + 2 = F, F + 2 = H, H + 2 = J

2) JLNP → J + 2 = L, L + 2 = N, N + 2 = P

3) CEGI → C + 2 = E, E + 2 = G, G + 2 = I

4) QSUV → Q + 2 = S, S + 2 = U, U + 2 = W ≠ V

Hence, “QSUV” is the correct answer.

Q39. Answer: (c) Wood : Furniture

The pattern is as follows:

Given: Cement : Building → Cement is used to make building.

Similarly,

Wood : Furniture → Wood is used to make Furniture.

Hence, “wood : furniture” is the correct answer.

Q40. Answer: (d) [figure]

All are unique creatures on the earth.

Rats → Rodents, Frogs → Amphibians, Snakes → Reptiles

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Hence, “option 4” is the correct answer.

Q41. Answer: (a) BOOK

The work of an Engineer involves the construction of Buildings.

Similarly,

The work of Writer involves writing books.

Hence, “Book” is the correct answer.

Q42. Answer: (b) [figure]

When unfolded the paper will look like the below figure:

Hence, “option 2” is the correct answer.

Q43. Answer: (a) [figure]

The mirror image of the question figure is as follows:

Hence, “option 1” is the correct answer.

Q44. Answer: (b) LW

The pattern followed here is:

The first letter of the second group is obtained by adding 4 letters to it.

The second letter of the second group is obtained by adding 10 letters to it.

Similarly,

Hence, “LW” is the correct answer.

Q45. Answer: (a) Thursday

We’ll divide 2013 in different years

2000 years + 12 years + 2013 (Jan + Feb + March + April + May + June + July + till 15 august)

There are 3 leap years and 9 non-leap years from 2001 to 2012. Therefore, no. of odd days in this period = 1

Also, 2013 is a non-leap year.

Thus, odd days in the given above years = [0 + 1 + (3 + 0 + 3 + 2 + 3 + 2 + 3 + 1)] mod 7

Total odd days = 18 and 18 ÷ 7 = 4 (remainder)

Days codes:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0	1	2	3	4	5	6

Code 4 is for Thursday.

Hence, “Thursday” is the correct answer.

Q46. Answer: (b) [figure]

The question figure is embedded in the below figure:

Hence, “option 2” is the correct answer.

Q47. Answer: (c) (36, 64, 100)

The pattern followed here is:

Given: (49, 81, 121) → 7^2, 9^2, 11^2(square of alternate numbers is taken)

1. (16, 64, 100) → 4^2, 8^2, 10^2(4, 8, 10 are not alternate numbers)

2. (16, 25, 49) → 4^2, 5^2, 7^2(4, 5, 7 are not alternate numbers)

3. (36, 64, 100) → 6^2, 8^2, 10^2(6, 8, 10 are alternate numbers)

4. (9, 4, 8) → 3^2, 2^2, $(2\sqrt{2})^2$(3, 2, $(2\sqrt{2})^2$ are not alternate numbers)

Hence, “(36, 64, 100)” is the correct answer.

Q48. Answer: (c) (10, 30, 58)

The pattern followed here is:

(16, 36, 64) → 16 + 20 = 36 and 36 + 28 = 64.

Similarly,

(10, 30, 58) → 10 + 20 = 30 and 30 + 28 = 58

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Hence, (10, 30, 58) is the correct answer.

Q49. Answer: (b) Wife

Using the below table of symbols, we can draw the family tree:

The family tree is as follows:

Hence, “wife” is the correct answer.

Q50. Answer: (c) All the conclusions follow.

The possible diagram is as follows:

Explanation:

I. All hens are lions → True (All hens are eggs, which are Lions. So, all hens are lions is correct).

II. Some lions are eggs → True (All eggs are lions. So, some lions will definitely be eggs).

III. All birds are lions → True (All birds are eggs, which are lions. So, all birds are lions is correct).

Hence, “all the conclusions follow” is the correct answer.

Q51. Answer: (c) 5

Calculation:

For a number to be divisible by 24,

it should be divisible by 8 and 3.

For a number to be divisible by 8,

the last three digits should be divisible by 8.

For,

y = 4, the last three digits,

i.e, 048 is divisible by 8.

For a number to be divisible by 3,

the sum of the digits should be divisible by 3.

=> 20 + x should be divisible by 3

For x = 1, 20 + x = 21 is divisible by 3

=> x = 1 and y = 4

Therefore x + y = 1 + 4 = 5.

The question has clearly mentioned X ≠ 0 and y ≠ 0

Q52. Answer: (b) 10

Let the second discount be x%.

=> 900 × (100 – 20)/100 × (100 – x)/100 = 648

=> 900 × 80/100 × (100 – x)/100 = 648

=> 100 – x = (648 × 100 × 100)/(900 × 80)

=> 100 – x = 90

=> x = 10%

Q53. Answer: (b) 25

(18.43 × 18.43 - 6.57 × 6.57)/11.86

=> ((18.43)² - (6.57)²)/(18.43 - 6.57)

=> ((18.43 - 6.57)(18.43 + 6.57))/(18.43 - 6.57)

=> 18.43 + 6.57

=> 25

Q54. Answer: (c) O, G, I and H

For an equilateral triangle, the circumcenter, centroid, incentre and orthocenter are identical.

Q55. Answer: (b) -1

$(3x + 1)^3 + (x – 3)^3 + (4 – 2x)^3 + 6(3x + 1)(x – 3)(x – 2) = 0$

$=> (3x + 1)^3 + (x – 3)^3 + (4 – 2x)^3 – 3(3x + 1)(x – 3)(4 – 2x) = 0$

$=> (3x + 1)^3 + (x – 3)^3 + (4 – 2x)^3 = 3(3x + 1)(x – 3)(4 – 2x)$

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We have, If $a^3 + b^3 + c^3 = 3abc$, then $a + b + c = 0$

=> $(3x + 1) + (x – 3) + (4 – 2x) = 0$

=> $2x + 2 = 0$

=> $2x = -2$

=> $x = -1$

Q56. Answer: (a) 1800

The maximum value of sin α is 1.

=> α = 90°

=> sin prop. to 1 + sin prop. to 2 + sin prop. to 3 ……. + sin prop. to 20 = 1 + 1 + 1 + ... up to 20 terms

=> sin prop. to 1 + sin prop. to 2 + sin prop. to 3 ……. + sin prop. to 20 = sin 90° + sin90° + ... up to 20 terms

=> prop. to 1 = prop. to 2 = prop. to 3 = ... = prop. to 20 = 90°

=> (prop. to 1 + prop. to 2 + prop. to 3 + … … + prop. to 20) = 90° + 90° + ... up to 20 terms

=> (prop. to 1 + prop. to 2 + prop. to 3 + … … + prop. to 20) = 90° × 20 = 1800°

Q57. Answer: (d) 2.4°

Let the athlete runs from A to B in 1 minute and the coach and the physiotherapist observe him from point C and P respectively

Given, angle ACB = 72°

The angle subtended by the arc at the centre is double of the angle subtended by the arc at a point on the circle.

=> angle APB = 2 × 72 = 144°

Hence, according to physiotherapist the athlete covers an angle of 144° per minute

Therefore In 1 second, the angle covered by the athlete according to physiotherapist = 144/60 = 2.4°

Q58. Answer: (a) B, D, C

The aggregate marks scored by B = (50 × 6/15) + (50 × 5/15) + (30 × 4/15) = 44.66

The aggregate marks scored by C = (70 × 6/15) + (80 × 5/15) + (60 × 4/15) = 70.66

The aggregate marks scored by D = (80 × 6/15) + (70 × 5/15) + (30 × 4/15) = 63.33

Therefore The ascending order = B, D, C

Q59. Answer: (b) 12 cm

ΔABC ~ ΔDEF

=> AB/DE = Perimeter of ΔABC/Perimeter of ΔDEF

=> AB/9 = 64/48

=> AB = 64/48 × 9

Therefore AB = 12 cm

Q60. Answer: (d) B and D

The full marks of paper = 300

=> The full marks of Theory, Practical and Project is 100 each

In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate.

The marks scored by each of B and D in Z is 30, which is less than 50%.

The aggregate marks of A = (60 × 6/15) + (70 × 5/15) + (50 × 4/15) = 60.66 = 60.66%

The aggregate marks scored by C = (70 × 6/15) + (80 × 5/15) + (60 × 4/15) = 70.66 = 70.66%

Therefore B and D could not pass the exam

Q61. Answer: (a) 20%

Let the amount invested be Rs. 100 and the rate of interest be x

Simple interest for 5 year = PRT/100 = (100 × x × 5)/100 = 5x

=> Amount at the end of 5 years = P + I = 100 + 5x

Simple interest for 3 years = PRT/100 = (100 × x × 3)/100 = 3x

Amount at the end of 3 years = P + I = 100 + 3x

According to question:

100 + 5x = 5/4(100 + 3x)

=> 400 + 20x = 500 + 15x

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=> 5x = 100

=> x = 20%

Q62. Answer: (c) 53/6

Shortcut Trick

Substitute the standard trigonometric values: cosec 30° = 2, sin 45° = 1/√2, sec 60° = 2, and tan 30° = 1/√3.

Expression = $2^2 + (1/\sqrt{2})^2 + 2^2 + (1/\sqrt{3})^2$

Expression = 4 + 1/2 + 4 + 1/3

Expression = 8 + (3 + 2) ÷ 6 = 8 + 5/6 = 53/6

Therefore The correct answer is 53/6.

Alternate Method

Given: $\text{cosec}^2 30° + \sin^2 45° + \sec^2 60° + \tan^2 30°$

Formula Used: Values of Trigonometric Ratios for specific angles.

=> cosec 30° = 2

=> sin 45° = 1/√2

=> sec 60° = 2

=> tan 30° = 1/√3

=> Value = $(2)^2 + (1/\sqrt{2})^2 + (2)^2 + (1/\sqrt{3})^2$

=> Value = 4 + 1/2 + 4 + 1/3

=> Value = 8 + (3 + 2) ÷ 6

=> Value = 8 + 5/6 = 53/6

Thus, the final calculated value corresponds to option (3).

Therefore The correct answer is 53/6.

Additional Information

Trigonometric Table Values

Values for common angles: sin 30° = 1/2, sin 45° = 1/√2, cos 60° = 1/2, tan 30° = 1/√3, and cot 45° = 1.

Reciprocal Relations

$\text{cosec}\,\theta = 1 \div \sin\theta$ | $\sec\theta = 1 \div \cos\theta$ | $\cot\theta = 1 \div \tan\theta$.

Square Identities

$\sin^2\theta + \cos^2\theta = 1$ | $\sec^2\theta - \tan^2\theta = 1$ | $\text{cosec}^2\theta - \cot^2\theta = 1$.

Q63. Answer: (a) 90°

By hit and trial method:

Taking the value of θ = 90°

L.H.S.

$\sqrt{3}\cos\theta + \sin\theta$

$= \sqrt{3}\cos 90° + \sin 90°$

$= \sqrt{3}(0) + 1$

= 1

= R.H.S.

Therefore θ = 90°

Q64. Answer: (c) 1087

We know, Average of quantities = sum of all quantities/no. of quantities

The average of 1088 numbers is zero.

So, the summation of 1088 numbers = 1088 × 0 = 0

If the summation of 1087 numbers = - (1088th number) then only summation of 1088 number will be zero.

Therefore Out of 1088 numbers, at most 1087 numbers may be greater than zero.

Q65. Answer: (d) 60

Marks scored by B in practical = 50

Marks scored by C in practical = 80

Therefore Required percentage = (80 - 50)/50 × 100 = 60%

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Q66. Answer: (c) 3/7

Let the number be x

Given: $x^2 /(1/x^3) = 243/16807$

=> x^5 = 243/16807

=> x = (243/16807)^(1/5)

Therefore x = 3/7

Q67. Answer: (a) 6

A completes a piece of work in 20 days.

=> One day work of A = 1/20

B completes 20% of the work in 6 days.

=> B will complete 100% of the work in 6 × 100/20 = 30 days.

One day work of B = 1/30

When A and B work together, their one day work = 1/20 + 1/30

=> (3 + 2)/60

=> 5/60

=> 1/12

=> A and B working together can complete the whole work in 12 days.

Therefore A and B together can complete 50% of the work in 12/2 = 6 days

Q68. Answer: (c) 0.0081

10/7(1 - 2.43 × 10^(- 3)) = 1.417 + x

=> 10/7(1 - 0.00243) = 1.417 + x

=> 10/7 × 0.99757 = 1.417 + x

=> 1.4251 = 1.417 + x

=> x = 1.4251 – 1.417

Therefore x = 0.0081

Q69. Answer: (d) 8

Selling price of first article = 200 × 105/100 = Rs. 210

Selling price of second article = 300 × 110/100 = Rs. 330

Total selling price = 210 + 330 = Rs. 540

Total cost price = 200 + 300 = Rs. 500

Therefore Overall gain percentage = (540 – 500)/500 × 100 = 8%

Q70. Answer: (a) 66.7

Let the number be x.

According to the question:

$X – 1/x = 25/100 × (x + 1/x)$

$=> x^2 – 1 = ¼ (x^2 + 1)$

$=> 4x^2 – 4 = x^2 + 1$

$=> 3x^2 = 5$

$=> x^2 = 5/3$

=> x^4 = 25/9

Therefore Required percentage = ((25/9 - 5/3))/(5/3) × 100 = 66.7%

Q71. Answer: (a) 7/6

{11/4 of (21/3 ÷ 12/5) - 15/12} + 1/9 ÷ 21/3 + 2/7 + 1/6

=> {5/4 of (7/3 ÷ 7/5) - 17/12} + 1/9 ÷ 7/3 + 2/7 + 1/6

=> {5/4 × (7/3 × 5/7) - 17/12} + 1/9 × 3/7 + 2/7 + 1/6

=> {25/12 - 17/12} + 1/21 + 2/7 + 1/6

=> 8/12 + 1/21 + 2/7 + 1/6

=> (56 + 4 + 24 + 14)/84

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=> 98/84

=> 7/6

Q72. Answer: (c) 3 : 1

Let two chords AB and CD intersect inside the circle at the point O:

Hence intersecting chords theorem is used which means that the products of the lengths of the line segments on each chord are equal

AO × OB = CO × DO

=> x(10 – x) = 1.5 × 12.5

=> $10x – x^2 = 18.75$

=> $x^2 – 10x + 18.75 = 0$

=> $100x^2 – 1000x + 1875 = 0$

=> $4x^2 – 40x + 75 = 0$

=> $4x^2 – 30x – 10x + 75 = 0$

=> 2x(2x – 15) – 5(2x – 15) = 0

=> (2x – 5)(2x – 15) = 0

=> x = 5/2 or x = 15/2

When x = 5/2,

(10 – x) = (10 – 5/2) = 15/2

When x = 15/2,

(10 – x) = (10 – 15/2) = 5/2

Therefore The ratio of the larger and smaller among AO and BO = 15/2: 5/2 = 3: 1

Q73. Answer: (d) 100 cm

In a rhombus, the diagonals bisect each other at right angle

Let the diagonal AC = 14 cm and BD = 48 cm

=> AO = 14/2 = 7 cm and BO = 48/2 = 24 cm

In ΔAOB, $AB^2 = AO^2 + BO^2$

=> $AB^2 = 7^2 + 24^2$

=> $AB^2 = 49 + 576$

=> $AB^2 = 625$

=> AB = 25 cm

Therefore Perimeter of the rhombus = 4 × side of rhombus = 4 × 25 = 100 cm

Q74. Answer: (c) 1.5 min

Shortcut Trick

Total distance = Length of Bridge + Length of Platform + Length of Train

Total distance = 1200 m + 400 m + 200 m = 1800 m

Speed = 72 km/h = 72 × (5/18) = 20 m/s

Time = 1800 / 20 = 90 seconds = 1.5 min

Therefore The correct answer is 1.5 min.

Alternate Method

Given:

Length of Bridge = 1.2 km = 1200 m

Length of Platform = 400 m

Length of Train = 200 m

Speed of Train = 72 km/h

Formula Used:

Time = Total Distance ÷ Speed

Calculations:

=> Total Distance = 1200 + 400 + 200 = 1800 m

=> Speed in m/s = 72 × (5/18) = 20 m/s

=> Time (in sec) = 1800 ÷ 20 = 90 seconds

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=> Time (in min) = 90 ÷ 60 = 1.5 min

Therefore The correct answer is 1.5 min.

Additional Information

Unit Conversion

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

Total Distance for Crossing

When a train crosses a stationary object of length L, the total distance covered is Length of Train + L.

Average Speed

Average speed = Total Distance ÷ Total Time. For two equal distances with speeds x and y, Average Speed = 2xy / (x+y).

Q75. Answer: (b) 65

Therefore Average marks of the four students in theory = (60 + 50 + 70 + 80)/4 = 65

Q76. Answer: (d) Potassium

The correct answer is option 4, i.e. Potassium.

• Potassium is the most common electrolyte for the human body.

• Hypokalaemia is a disease caused by a lower level of potassium.

• Potassium is very important electrolytes required in the formation of Adenosine triphosphate(ATP) and Na-K ATPase pump.

Q77. Answer: (a) Rajatarangini

The correct answer is option 1, i.e. Rajatarangini.

• Rajatarangini literally translates to 'The River of Kings'.

• This work in Sanskrit was authored by Historian Kalhana in the 12th century.

• It is divided into eight books each of which is called 'Tarang'.

• Rajatarangini tells the history of Kashmir.

Q78. Answer: (b) Metropolitan Area Network

The correct answer is option 2, i.e. Metropolitan Area Network.

• MAN is Metropolitan Area Network and is used to connect two or more LANs in a common geographic area: say a city or a group of buildings.

• MANs can span in the range of 5 to 50 kilometers in diameter.

• MANs usually are not owned by a single organization, they are owned by an association of users or by a single network provider who sells the service to the users.

• It interconnects users with computer resources in a geographic area or region larger than that covered by even a large local area network (LAN) but smaller than the area covered by a wide area network (WAN).

Q79. Answer: (c) Football

The correct answer is option 3, i.e. Football.

• Rovers Cup is related to football.

• It was a Football tournament started by British football lovers in 1891 in Bombay.

• The inaugural year witnessed the 1st Worcester Regiment as the winner.

Q80. Answer: (d) Kanshi Ram

The correct answer is option 4, i.e. Kanshi Ram.

• The Bahujan Samaj Party (BSP), English Majority People's Party, national political party in India.

• It was formed on the birth anniversary of B. R. Ambedkar, 14 April 1984, by Kanshi Ram.

• It represents the lowest level of peoples at the Hindu social system.

• The designated members are of the Scheduled Castes, Scheduled Tribes, and Other Backward Classes as well as other religious and social minorities.

Q81. Answer: (c) Chilika-Andhra Pradesh

The correct answer is option 3, i.e. Chilika-Andhra Pradesh.

Name of the lakes	States name
Lonar	Maharashtra

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Loktak	Manipur
Chilika	Odisha
Roopkund	Uttarakhand

Q82. Answer: (c) Kuchipudi-Odisha

The correct answer is option 3, i.e. Kuchipudi - Odisha is incorrect.

Classical dances	Related States
Mohiniattam	Kerala
Sattriya	Assam
Kuchipudi	Andra Pradesh
Bharatanatyam	Tamilnadu

Q83. Answer: (d) the socio-economic status of Muslim community in India

The correct answer is option 4, i.e. the socio-economic status of Muslim community in India.

• The Prime Minister issued a Notification On March 9, 2005, for the constitution of a High Level Committee to prepare a report on the social, economic and educational status of the Muslim community of India.

• The seven-member High Level Committee,chaired by Justice Rajindar Sachar,

• This committee submitted its final report to the Prime Minister on November 17, 2006.

• The Government tabled the Justice Rajindar Sachar Committee Report in Parliament on November 30th.

Q84. Answer: (d) Indian Financial System Code

The correct answer is option 4,i.e. Indian Financial System Code.

• IFSC stands for Indian Financial System Code.

• It is represented by the 11 digits alpha-numeric character.

• We can usually see it on your bank's cheque leaves, or other bank sponsored material.

• This code helps identify the individual bank branches that participate in the various online money transfer options like NEFT and RTGS.

Q85. Answer: (d) Zurich

The correct answer is option 4, i.e. Zürich

• The headquarters of Federation Internationale de Football Association (FIFA) is located at Zurich, Switzerland.

• It was founded in Paris, France on 21 May 1904.

• It organises various major football tournaments which include the FIFA World Cup.

• Gianni Infantino is the current president of FIFA.

• Brazil is the most successful team in the FIFA world cup with 5 titles.

• FIFA 2018 was played in Russia.

• It was won by France and the runner up was Croatia. (Capital - Zagreb)

Q86. Answer: (c) Ireland

The correct answer is option 3,i.e. Ireland.

• Ireland has become the second country in the world to declare a climate and biodiversity emergency.

• It happened after the Oireachtas (Irish parliament) report on Climate Action was accepted by the government and opposition parties without a vote.

• Ireland followed in the footsteps of the United Kingdom, which declared a climate emergency earlier this month after 16-year-old Swedish climate activist Greta Thunberg addressed MPs urging more climate action and in the wake of protests by climate action group Extinction Rebellion.

Q87. Answer: (b) Badminton

The correct answer is option 2, i.e. Badminton.

• India's chief national badminton coach Pullela Gopichand was bestowed an honorary doctorate by Indian Institute of Technology, Kanpur, on the occasion of its 52nd convocation.

• The coach extraordinaire along with Infosys chairperson Sudha Murthy and Tessy Thomas, director-general of aeronautical

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systems at the Defence Research and Development Organisation, received this honour from former Indian Space Research Organisation chairman professor K. Radhakrishnan, chairman of the board of governors of IIT, Kanpur.

• They joined an elite list of recipients including former president professor A. P. J. Abdul Kalam and former prime minister Manmohan Singh.

Q88. Answer: (d) Sabarmati

The correct answer is option 4, i.e. Sabarmati.

• Sabarmati River is the west-flowing river.

• It originates from the Dhebar Lake in Aravalli range at Udaipur, Rajasthan.

• It finally merges with the Arabian Sea at the Gulf of Cambay/Khambhat after covering a distance of 371 km.

• Gomti, Krishna and Mahanadi all are east-flowing rivers.

Q89. Answer: (c) Grassland

The correct answer is option 3, i.e. Grassland.

• Grassland is a terrestrial habitat as it is entirely on land.

• Aquatic habitat simply refers to a habitat either surrounded by or completely submerged in a water body like ponds, lagoon, swamps, etc

• Chilka lake in Odhisa is the largest saltwater Lagoon Lake in India.

Q90. Answer: (d) YS Jagan Mohan Reddy

The correct answer is option 4, i.e. YS Jagan Mohan Reddy.

• YS Jagan Mohan Reddy has taken oath as Chief Minister of Andhra Pradesh on 30th May 2019.

• Governor ESL Narasimhan administered him the oath of office and secrecy at Indira Gandhi Municipal Stadium in Vijayawada.

Q91. Answer: (c) Zonel Sougaijam

The correct answer is option 3, i.e. Zonel Sougaijam.

• Zonel Sougaijam is a civil engineer and he is 22-year-old.

• He is from Imphal, Manipur.

• He was awarded USD 5000 by facebook.

• This technology giant also included him in the 'Facebook Hall of Fame 2019', for detecting the WhatsApp bug.

Q92. Answer: (d) Planck's Constant

The correct answer is option 4, i.e. Planck's Constant.

• India has adopted a global resolution to redefine four of the seven base units - kilogramme, kelvin, mole and ampere.

• A resolution to redefine four of the seven base units was passed by representatives of 60 countries at the General Conference on Weights and Measures (CGPM) of the International Bureau of Weights and Measures (BIPM), Paris on November 16 last year.

• The kilogram has been defined since 1889 by a shiny piece of platinum-iridium held in Paris. All modern mass measurements are traceable back to it - from micrograms of pharmaceutical medicines to kilos of apples and pears and tonnes of steel or cement.

• The new SI System will be helpful in bringing in accuracy while dealing with international trade, biotechnology, high-tech manufacturing and human health and safety.

• The new definition of kg involves accurate weighing machines called 'Kibble balance', which uses Planck's Constant to measure the mass of an object using a precisely measured electromagnetic force.

Q93. Answer: (c) California

The correct answer is option 3, i.e. California.

• Intel or also known as in Intel Corporation is an American manufacturer of semiconductor computer circuits.

• It is headquartered in Santa Clara, California.

• From “integrated electronics” the intel name has been derived.

• Intel was founded by two American engineers Robert Noyce and Gordon Moore in July 1968.

• The CEO of the company is Bob Swan.

Q94. Answer: (d) Vaigai

The correct answer is option 4, i.e. Vaigai.

• Vaigai is a river in Tamil Nadu state, southern India, it flowing 240 km generally southeast.

• It originated in the Varushanad Hills of western Tamil Nadu, it initially flows northeast through the Kambam and Varushanad valleys.

• After the central reaches, the Vaigai flows eastward into the Vaigai reservoir at Narasingapuram.

• Near Sholavandan it bends to the southeast, passing Madurai on its course to its mouth on Palk Strait, which separates the southeastern coast of India from Sri Lanka.

• The Vaigai River rarely floods; its chief tributaries are the Siruliar, Theniar, Varaha Nadi, and Mangalar.

• Amaravati, Bhavani and Kabini are the tributaries of river Kaveri.

Q95. Answer: (c) Chenab

The correct answer is option 3, i.e. Chenab.

• Salal power station is a run-of-the-river scheme.

• It installed with a capacity of 690 MW to harnesses the Hydropower potential of river Chenab.

• It is located in Reasi district of Jammu & Kashmir.

• The beneficiary states of this power station are Chandigarh, Delhi, Himachal Pradesh, Haryana, Jammu & Kashmir, Punjab, Rajasthan, Uttrakhand & Uttar Pradesh.

Q96. Answer: (d) Kapila

The correct answer is option 4, i.e. Kapila.

• Samkhya also spelt Sankhya, one of the six systems of Indian philosophy.

Sage	Indian Philosophy
Sage Kapila	Samkhya
Maharishi Patanjali	Yog
Sage Gautum	Nyaya
Sage Kanada Rishi	Vaisheshika

Q97. Answer: (b) Benjamin Netanyahu

The correct answer is option 2, i.e. Benjamin Netanyahu.

Name of the Prime Ministers	Country Name
Sheikh Hasina	Bangladesh
Benjamin Netanyahu	Israel
Ranil Wickremesinghe	Srilanka
Imad Khamis	Syria

Q98. Answer: (d) Chhau

The correct answer is option 4, i.e. Chhau.

Key Points

• Chhau dance included in UNESCO's Intangible Heritage list in the year 2010.

• Chhau, a unique form of masked dance, is preserved by the royal family of Saraikela, the former state of Jharkhand.

• The dancer employs a deity, animal, bird, hunter, rainbow, night, or flower.

Additional Information

• The name of the folk dances and their respective states name are given below:

Name of the Dance	Name of the state
Fugdi	Goa and Maharastra
Jhumar	Haryana
Dalkhai	Odisha
Chhau	West Bengal, Bihar, and Odisha, Jharkhand

Q99. Answer: (b) Article 75

The correct answer is option 2, i.e. Article 75.

• According to Article 75 of Indian Constitution, the ministers are collectively responsible to the Parliament in general and to the

Lok Sabha in particular.

• Lok Sabha is the bridge between the Executive (Laws implemented by the Executive) and the Legislature (Laws framed) after deliberations on the laws in force and making the necessary amendments based on the current social, political and economic fabric of our country.

• The Lok Sabha is the lower house of our bicameral Parliament.

• The total number of Council of Ministers, which includes the Prime Minister, shall not exceed fifteen per cent of the total number of members of Lok Sabha.

Q100. Answer: (a) Nirmala Sitharaman

The correct answer is option 1, i.e. Nirmala Sitaraman.

• Nirmala Sitharaman is the recent Finance minister in the present Lok Sabha.

• She forayed into politics in 2008 as a member of BJP and spent the remnants of her time as a spokesperson of the party until she was inducted into Narendra Modi's cabinet in 2014.

• She was elected to Rajya Sabha in 2014 and subsequently in 2016.

• She served as the Minister of Defense, the second woman to hold the post since Indira Gandhi.

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