SSC CHSL Previous Paper 8 (Held On: 4 July 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 wrongly spelt word.

(a) scarce
(b) scanty
(c) scheme
(d) scenary

Q2. 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 ceremony will following by tea and refreshments for the guests.

(a) will be followed by
(b) will follow with
(c) No improvement
(d) will followed by

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

ACCESSIBLE

(a) stressed
(b) attainable
(c) reachable
(d) restricted

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

SCRAP

(a) store
(b) reject
(c) hoard
(d) save

Q5. Select the most appropriate meaning of the given idiom.

Be an old hat

(a) be crazy
(b) be outdated
(c) be superstitious
(d) be foolish

Q6. Select the most appropriate antonym of the given word.

HASTY

(a) reckless
(b) cautious

(c) sudden
(d) urgent

Q7. Select the most appropriate word to fill in the blank.

Leopards have learned to _____ to semi-urban living near Mumbai and Gurugram.

(a) adopt
(b) change
(c) adapt
(d) prepare

Q8. Select the word which means the same as the group of words given.

A person who can speak two languages

(a) bilingual
(b) multilingual
(c) linguist
(d) monolingual

Q9. In the sentence identify the segment which contains the grammatical error.

The blue lotus is one of the most beautiful flowers that grows in her garden.

(a) is one of the most beautiful flowers
(b) The blue lotus
(c) that grows
(d) in her garden

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

A. He meets me in the same frank friendly way as always without mentioning it.
B. He has owed it to me for twelve months now.
C. I can realise whenever I meet him that he has forgotten that he owes me a dollar.
D. My friend Todd owes me a dollar.

(a) ADBC
(b) CBAD
(c) CBDA
(d) DBCA

Q11. In the sentence identify the segment which contains the grammatical error.

On Saturday Rahul visited his professor to whom he had an appointment.

(a) Rahul visited his professor
(b) an appointment
(c) to whom he had
(d) On Saturday

Q12. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. On the morning of April 12, Gopal rose at 5.30 am.
B. Then he drove to the Joggers Park which was four km away.
C. There he met his group of walking enthusiasts.
D. He put on his track suit and walking shoes.

(a) ACBD
(b) DCAB
(c) ADBC
(d) CBAD

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Q13. Select the most appropriate word to fill in the blank.

Darkness _____ over the forest increasing the danger of wild animals.

(a) declined
(b) descended
(c) collapsed
(d) grounded

Q14. Select the wrongly spelt word.

(a) nibble
(b) nightingale
(c) ninteenth
(d) neither

Q15. Select the most appropriate synonym of the given word.

AVENGE

(a) cheer
(b) encourage
(c) comfort
(d) punish

Q16. Select the most appropriate meaning of the given idiom.

feather your own nest

(a) win a competition
(b) make money unfairly
(c) disturb others in their work
(d) be in a comfortable position

Q17. Select the word which means the same as the group of words given.

guide the course of a ship especially by using instruments or maps

(a) navigate
(b) travel
(c) sail
(d) anchor

Q18. Select the correct passive form of the given sentence.

The mechanic repaired my car quite satisfactorily.

(a) My car is repaired quite satisfactorily by the mechanic.
(b) My car was repaired quite satisfactorily by the mechanic.
(c) My car repaired quite satisfactorily by the mechanic.
(d) The mechanic was repaired quite satisfactorily by my car.

Q19. 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 government has ordered that all the coaching centres without fire safety arrangements house above the fourth floor be shut down immediately.

(a) house up to the fourth floor
(b) housed over a fourth floor
(c) No improvement
(d) housed above the fourth floor

Q20. Select the correct indirect form of the given sentence.

The stranger said to me, "Can you tell me the way to the River Bank Colony?"

(a) The stranger asked me if you could tell him the way to the River Bank Colony.
(b) The stranger told me that I could tell him the way to the River Bank Colony.

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(c) The stranger asked me can you tell me the way to the River Bank Colony.

(d) The stranger asked me if I could tell him the way to the River Bank Colony.

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.

In one of the most high-profile localities in the capital, hundreds of (1) ____ walk across an unmanned railway track (2) __ day to get to school. Lakshman (3) __ his way down the rocky steps (4) __ lead to the railway track behind his settlement. He (5) ____ in the affirmative when asked if the track scares him. "I have fallen down these steps so many times during the monsoon. But there is no other way to walk to school," he says.

Q21. Select the most appropriate option for blank No. 1.

(a) women

(b) children

(c) men

(d) people

Q22. Select the most appropriate option for blank No. 2.

(a) some

(b) every

(c) all

(d) whole

Q23. Select the most appropriate option for blank No. 3.

(a) was making

(b) make

(c) makes

(d) had made

Q24. Select the most appropriate option for blank No. 4.

(a) what

(b) who

(c) which

(d) whom

Q25. Select the most appropriate option for blank No. 5.

(a) salutes

(b) nods

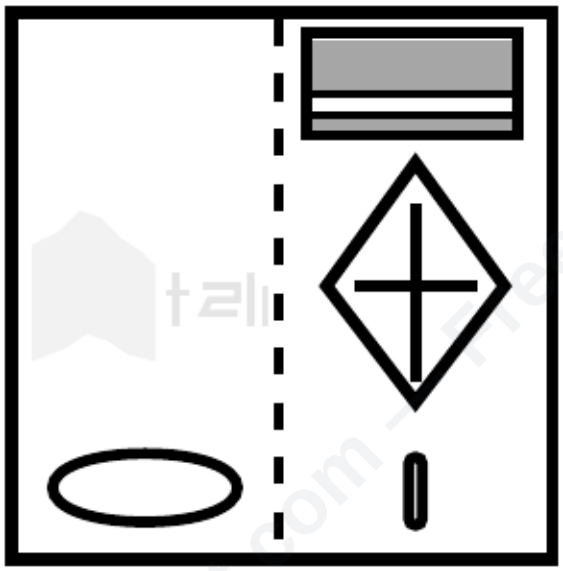
(c) winks

(d) shakes

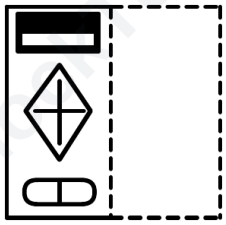
GENERAL INTELLIGENCE

Q26. A figure of transparent sheet with a pattern is given below. Figure out from amongst the four options as to how the pattern would appear when the transparent sheet is folded at the dotted line.

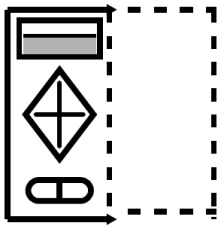
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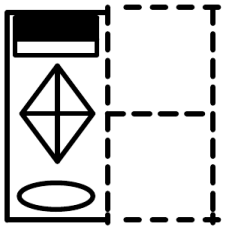
(a)



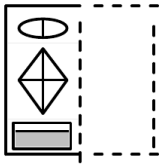
(b)



(c)



(d)



Q27. 'Hard work' is related to 'Success' in the same way as 'Crime' is related to '_____'.

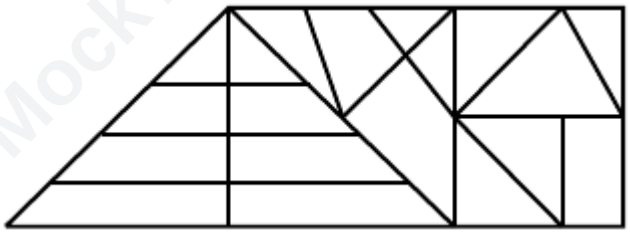
(a) Punishment
(b) Society
(c) Police
(d) Reward

Q28. Select the correct alternative to indicate the arrangement of the following phrases in a logical and meaningful order.

1. Vacant post in organization
2. Receiving Applications
3. Conducting written test and interviews
4. Inviting applications for post
5. Job offer to selected candidates
6. Joining and on-the-job training

(a) 4, 1, 5, 2, 6, 3
(b) 1, 4, 3, 2, 5, 6
(c) 4, 1, 3, 5, 2, 6
(d) 1, 4, 2, 3, 5, 6

Q29. How many triangles are there in the figure given below?



(a) 25
(b) 27
(c) 26
(d) 28

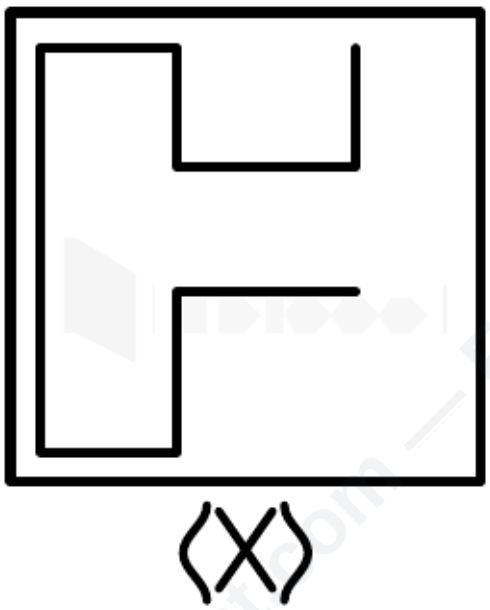
Q30. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

T C _ M B C _ N T _ Q M _ C D _ T _ Q M B _ D N

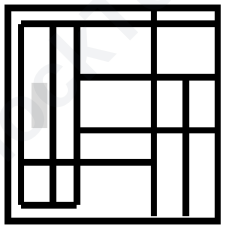
(a) QDDBCCN
(b) QDCBNCC
(c) TDCBNCD
(d) QBCDNNC

Q31. Select the option figure which contains figure X embedded in it as its part. (Rotation is not allowed)

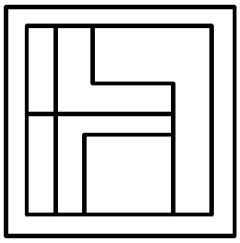
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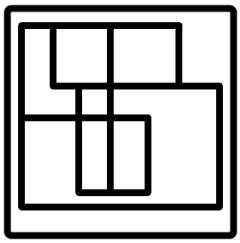
(a)



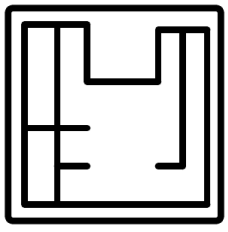
(b)



(c)



(d)



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Q32. Three persons A, B and C have different amount of rupees with them. If A gives 11 to C, A will have equal amount as B has. A and B together have total 245. How many rupees does B have?

(a) 116
(b) 117
(c) 118
(d) 119

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

(a) DJMG
(b) UADX
(c) RXBU
(d) JPSM

Q34. Which number will replace the question mark (?) in the following series?

15, 43, 83, 137, 207, ?

(a) 297
(b) 292
(c) 295
(d) 294

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.

53 : 477

(a) 55 : 525
(b) 43 : 367
(c) 39 : 351
(d) 45 : 460

Q36. Two 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:

Some ants are bats.

Some ants are crabs.

Conclusions:

I. Some bats are crabs.

II. No crab is ant.

III. No bat is crab.

(a) Either conclusion I or II follow.
(b) Only conclusions I and III follow.
(c) Either conclusion I or III follow.
(d) Only conclusions I and II follow.

Q37. A + B means ‘A is sister of B’

A – B means ‘A is son of B’

A × B means ‘A is husband of B’

A ÷ B means ‘A is mother of B’

If P + Q ÷ C – D – L × J, then how is J related to Q?

(a) Father-in-law
(b) Mother-in-law
(c) Mother
(d) Daughter

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Q38. 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) 349
(b) 319
(c) 317
(d) 347

Q39. Select the set in which the numbers are related in the same way as are the numbers of the following set.

8, 9, 145

(a) 10, 11, 121
(b) 7, 8, 117
(c) 6, 8, 104
(d) 6, 7, 85

Q40. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

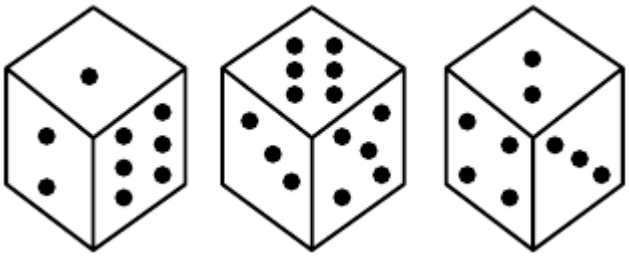
(a) Tailor
(b) Worker
(c) Carpenter
(d) Farmer

Q41. Which two signs should be interchanged in the following equation to make it correct?

207 × 9 + 13 ÷ 26 – 301 = 60

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

Q42. Three different positions of the same dice, which has one to six dots on its six faces, are shown below. When one dot is at the bottom the number of dots on the top will be:



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

Q43. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

RDPC : NHLG : : SKDG : ?

(a) OOYK
(b) OPZK
(c) NOYK
(d) OOZK

Q44. In a code language, ‘POSSIBLE’ is written as ‘QRUUDKGN’. How will ‘FAREWELL’ be written as in that language?

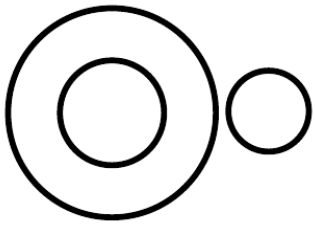
(a) BHGUGYNN
(b) CIGTGZNN
(c) CHGTGYMM
(d) CHGTGYNN

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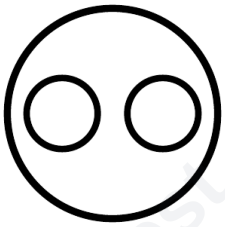
Q45. Select the Venn diagram that best illustrates the relationship between the following classes.

Cucumber, Spices, Food

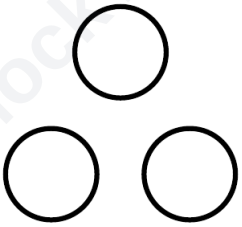
(a)



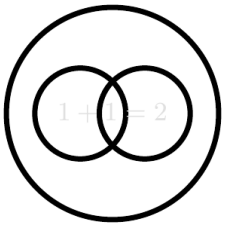
(b)



(c)



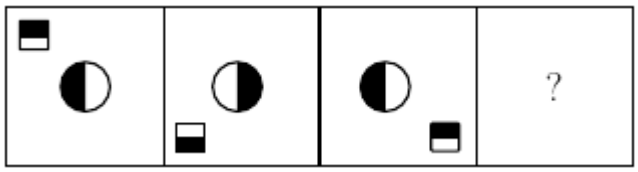
(d)



Q46. If ‘REGIONAL’ is coded as '185791514112', then how will ‘PICTURES’ be coded in the same language?

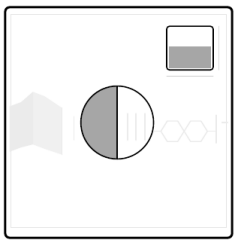
(a) 1693192117523
(b) 1793202118520
(c) 1693202219520
(d) 1693202118519

Q47. Select the figure that will come next in the following figure series.



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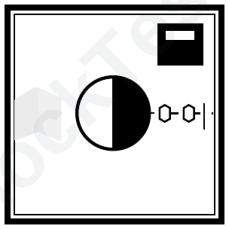
(a)



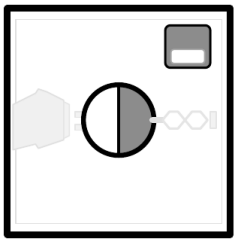
(b)



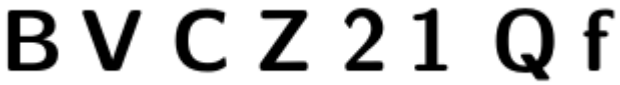
(c)



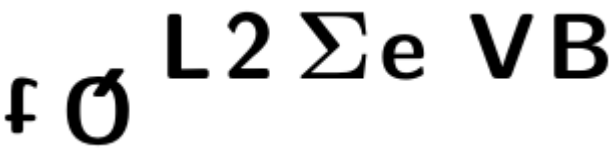
(d)



Q48. Select the correct mirror image of the given when the mirror is placed to the right of the figure.



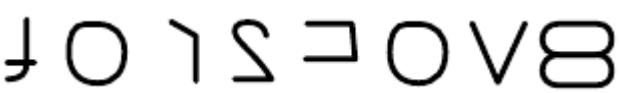
(a)



(b)



(c)



(d)

tQ rS 2 6 V B

Q49. 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.

Fossils : Paleontology

(a) Flowers : Zoology
(b) Fungi : Phycology
(c) Rocks : Astronomy
(d) Plants : Botany

Q50. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(94, 44, 82)

(a) (64, 58, 42)
(b) (98, 68, 86)
(c) (78, 40, 88)
(d) (48, 31, 76)

QUANTITATIVE APTITUDE

Q51. Three articles are bought at Rs. 200 each. One of them is sold at a loss of 10%. If the other two articles are sold so as to gain 20% on the whole transaction, then what is the gain percent on the two articles?

(a) 28%
(b) 30%
(c) 35%
(d) 32%

Q52. If $x + y + z = 3$ and $xy + yz + zx = -18$, then what is the value of $x^3 + y^3 + z^3 – 3xyz$ = ?

(a) 217
(b) 191
(c) 189
(d) 187

Q53. Sudha decided to donate 12% of her monthly income to an orphanage. On the day of donation, she changed her decision and donated a sum of Rs. 4800 which was equal to 80% of what she had decide earlier. What is 27% of her monthly income?

(a) Rs. 14040
(b) Rs. 11934
(c) Rs. 13500
(d) Rs. 13959

Q54. ΔABC is triangle, where angle B is obtuse angle. AD is perpendicular on CB produced at D. If AB = 8 cm, BC = 7 cm and BD = 4 cm, then AC is equal to:

(a) 15 cm
(b) 13 cm
(c) 14 cm
(d) 12 cm

Q55. A sum invested at 8% p.a. amounts to Rs. 20280 at the end of one year, when the interest is compounded half yearly. What will be simple interest on the same sum for 4 3/5 years at double the earlier rate of interest?

(a) Rs. 14500
(b) Rs. 13500

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(c) Rs. 14200
(d) Rs. 13800

Q56. The parallel sides of a trapezium are 20 cm and 10 cm and its non-parallel sides are equal to each other. If its area is 180 cm², then what is the length (in cm) of each non-parallel side?
(a) 13
(b) 12
(c) 11
(d) 15

Q57. A can do 40% of a work in 6 days and B can do 30% of the same work in 3 days. They started the work together but B left after 2 days and A continued to work. In how many days was the entire work completed?
(a) 9
(b) 12
(c) 15
(d) 10

Q58. A train covers a certain distance in 45 minutes. If its speed is reduced by 5 km/h, it takes 3 minutes more to cover the same distance. The distance (in km) is:
(a) 64
(b) 54
(c) 80
(d) 60

Q59. Incomes of A and B are in the ratio 5 : 3 and their expenditures are in the ratio 9 : 5. If income of A is twice the expenditure of B, then what is the ratio of savings of A and B?
(a) 1 : 1
(b) 3 : 2
(c) 3 : 4
(d) 2 : 3

Q60. The simplified value of 3 × 6 ÷ 4 of 6 – 6 ÷ 2 × (4 - 6) + 4 – 2 × 3 ÷ 6 of 1/3 is:
(a) 133/4
(b) 83/4
(c) 73/4
(d) 13/4

Q61. A shopkeeper marks his goods at 25% above the cost price. He sells three-fourth of the goods at the marked price and the remaining at 40% discount on the marked price. His gain/loss percent is:
(a) Gain 10.5%
(b) Loss, 12.5%
(c) Gain 12.5%
(d) Loss, 8.75%

Q62. If $8(a + b)^3 + (a - b)^3 = (3a + b)(Aa^2 + Bab + Cb^2)$, then what is the value of (A + B - C)?
(a) 10
(b) 2
(c) 4
(d) 11

Q63. For $0° < \theta < 90°$, if
[Figure: see this question online]
$(\sec\theta (1 - \sin\theta)(\sec\theta + \tan\theta))/((\sec\theta - \tan\theta)^2) = (1 + k)/(1 - k)$ then k is equal to:
(a) sin θ
(b) sec θ
(c) cos θ

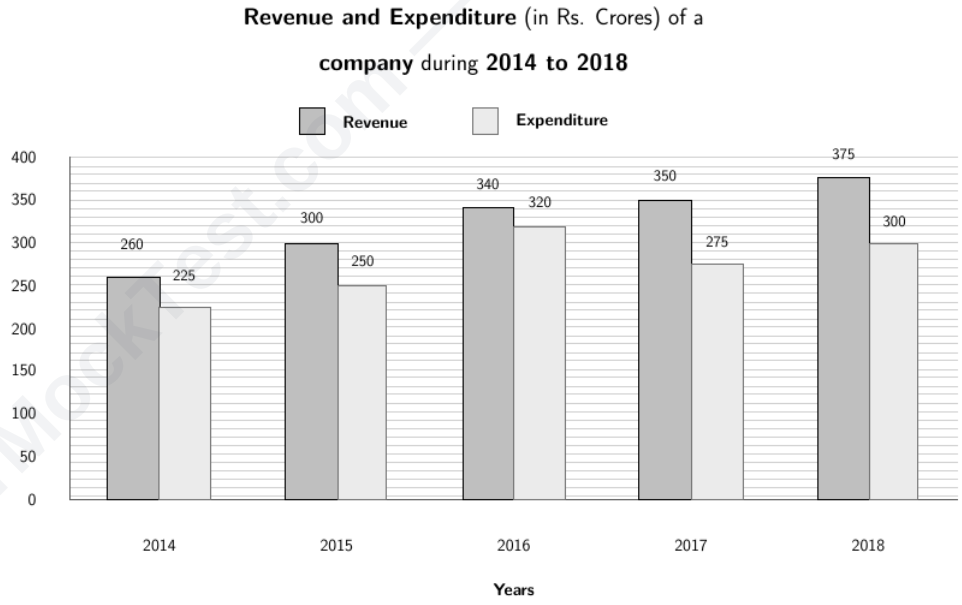
(d) cosec θ

Q64. If a 10-digit number 75y97405x2 is divisible by 72, then the value of (2x - y), for the greatest value of x, is:

(a) 24
(b) 21
(c) 12
(d) 18

Directions

Directions: The given bar graph present the revenue and expenditure (in crores of Rupees) of a company during the five year period, 2014-2018



Q65. The expenditure of the company in 2017 is what percentage less than the average revenue (per year) in 2014, 2015 and 2016?

(a) 121/3
(b) 112/9
(c) 111/9
(d) 81/3

Q66. What is the ratio of the total revenue of the company in 2015 and 2018 to that of its expenditure in 2014 and 2018?

(a) 13 : 10
(b) 7 : 5
(c) 9 : 7
(d) 5 : 4

Q67. The total expenditure of the company from 2016 to 2018 is what percentage (nearest to an integer) of the total revenue for the five year period?

(a) 53
(b) 55
(c) 56
(d) 54

Q68. In which year the percentage increase in the revenue as compared to that in its preceding year is between 5% and 8%?

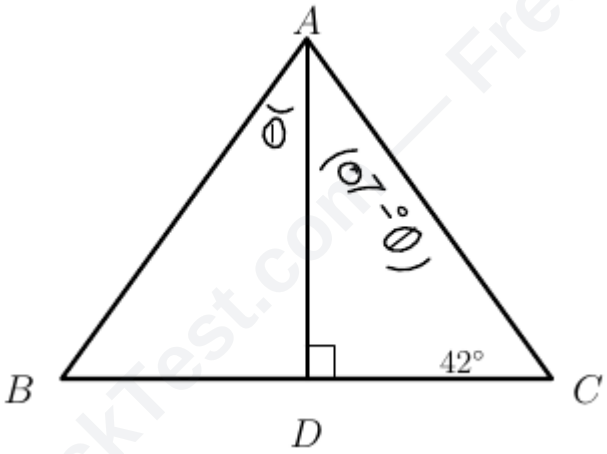
(a) 2015
(b) 2017
(c) 2018
(d) 2016

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Q69. ABCD is a cyclic quadrilateral such that its sides AD and BC produced meet at P and sides AB and DC produced meet at O. If angle A = 62° and angle ABC = 74°, then the difference between angle P and angle O is:

(a) 32°
(b) 38°
(c) 44°
(d) 23°

Q70.



In ΔABC, D is a point on BC such that, angle BAC = 87° and angle C = 42°. What is the measure of angle ABD?

(a) 94°
(b) 68°
(c) 51°
(d) 102°

Q71. In a circle with center O, AB is a diameter. Points C, D and E are on the circle on one side of AB such that ABEDC is a pentagon. The sum of angles ACD and BED is.

(a) 240°
(b) 270°
(c) 180°
(d) 225°

Q72. The average of n numbers is 36. If each of 75% of the numbers is increased by 6 and each of the remaining numbers is decreased by 9, then the new average of the numbers is:

(a) 38.25
(b) 33.75
(c) 37.125
(d) 36.25

Q73. For θ being an acute angle, if cosec θ = 1.25, then the value of (4tanθ – 5cosθ)/(secθ + 4cotθ) is equal to:

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

Q74. If $x^2 – 6x + 1 = 0$, then the value of [{x^4 + (1/x²)} ÷ (x² + 1)] is:

(a) 35
(b) 39
(c) 33
(d) 36

Q75. For $0° < \theta < 90°$, if $2\cos^2\theta = 3\sin\theta$, then the value of $(\text{cosec}^2\theta - \cot^2\theta + \cos^2\theta)$ is equal to:

(a) 11/2
(b) 23/4
(c) 13/4
(d) 21/4

GENERAL AWARENESS

Q76. As per the Constitution of India, the President may resign his office by writing under his hand addressed to:

(a) The Chief Justice of India
(b) The Vice President
(c) Chief Election Commissioner
(d) None of the above

Q77. Desktop computers, laptop computers, tablets and smartphones are different types of_____.

(a) microcomputers
(b) mainframe computers
(c) supercomputers
(d) minicomputers

Q78. Which of the following books was NOT written by the great Indian poet and dramatist Mahakavi Kalidas?

(a) Malavikagnimitram
(b) Malatimadhava
(c) Ritusamhara
(d) Abhijananshakuntala

Q79. According to the Indian Bureau of Mines, which of the following states has the largest reserve of silver in India?

(a) Rajasthan
(b) Gujarat
(c) Bihar
(d) Maharashtra

Q80. Which one of the following is defined as "the proportion of highly liquid assets held by financial institutions, to ensure their ongoing ability to meet short-term obligations"?

(a) Cash Reserve Ratio
(b) Base Rate
(c) Statutory Liquidity Ratio
(d) Liquidity Coverage Ratio

Q81. Which mountains are on India's eastern border with Myanmar?

(a) Satpura
(b) Karakoram
(c) Purvanchal
(d) Vindhya

Q82. All the four rivers mentioned below are rivers of Kerala. Which of these is the southern most river of the state?

(a) Periyar River
(b) Neyyar River
(c) Chaliyar River
(d) Kuppam River

Q83. Who among the following pioneered binary logic and arithmetic in computers programming?

(a) Leslie Lamport
(b) Claude Shannon
(c) John Backus

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(d) Noam Chomsky

Q84. Who among the following was elected and sworn in as the 6^(th) President of Ukraine in April-May 2019?

(a) Petro Poroshenko
(b) Volodymyr Zelensky
(c) Oleksandr Turchynov
(d) Stepan Kubiv

Q85. What is India's rank among the 180 countries on the 'Environmental Performance Index 2018', according to the biennial report by Yale and Columbia Universities along with the World Economic Forum?

(a) 167
(b) 147
(c) 157
(d) 177

Q86. In May 2019, who among the following became the only mountaineer in the world to hold the record for most summits on Mount Everest?

(a) Phurba Tashi
(b) Phu Dorjee
(c) Kami Rita Sherpa
(d) Andrew Irvine

Q87. Which former judge of the Supreme Court of India was appointed as the Chairperson of the News Broadcasting Standards Authority in May 2019?

(a) Arun Mishra
(b) Ranjan Gogoi
(c) A K Sikri
(d) R V Raveendran

Q88. The Cheriyal Scrolls is a dying art form of India practised by one family called the Nakashi family for many generations. Name the modern day state which owns this art form.

(a) Tamil Nadu
(b) West Bengal
(c) Telangana
(d) Karnataka

Q89. What is the SI unit of pressure?

(a) Volt
(b) Ampere
(c) Pascal
(d) Ohm

Q90. Where was the second Shanghai Cooperation Organization Mass Media Forum held from 23-26 May 2019?

(a) Kyrgyzstan
(b) India
(c) Uzbekistan
(d) Beijing

Q91. Which of the following are flowerless plants that produce cones and seeds in which seeds are not encased within an ovary?

(a) Bryophytes
(b) Angiosperms
(c) Hydrophytes
(d) Gymnosperms

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Q92. Who is the author of the autobiography 'Playing It My Way'?

(a) Leander Paes
(b) Mahesh Bhupathi
(c) Kapil Dev
(d) Sachin Tendulkar

Q93. In May 2019, which one of the following organisations was banned by the government of India?

(a) Deendar Anjuman
(b) Jamaat-ul-Mujahideen Bangladesh
(c) Al Badr
(d) Harkat-Ul-Mujahideen

Q94. As of June 2019, who among the following is the chairman of the 15th Finance Commission of India?

(a) Y V Reddy
(b) N K Singh
(c) Shaktikanta Das
(d) Arvind Panagariya

Q95. Who defeated India's Sourav Kothari in final to win the 2019 Pacific International Billiards Championship?

(a) Peter Gilchrist
(b) William Cook
(c) Joe Davis
(d) Michael Phelan

Q96. Who among the following was killed by Chhatrapati Shivaji in the Battle of Pratapgarh?

(a) Shuja Khan
(b) Afzal Khan
(c) Asghar Khan
(d) Shaista Khan

Q97. To which state does the noted Padma Shri awardee and Sufi saint Ibrahim Sutar belong?

(a) Andhra Pradesh
(b) Telangana
(c) Kerala
(d) Karnataka

Q98. The First Health Minister of Independent India was _____.

(a) Maulana Abdul Kalam Azad
(b) Sardar Vallabhbhai Patel
(c) Rajkumari Amrit Kaur
(d) Vijayalakshmi Pandit

Q99. Which of the following is NOT a water borne disease?

(a) Mumps
(b) Typhoid
(c) Cholera
(d) Hepatitis

Q100. Who among the following was the first Indian Cricketer to hit a century in the very first session of a Test match?

(a) Prithvi Shaw
(b) Shikhar Dhawan
(c) Rishabh Pant
(d) Virat Kohli

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) scenary

The correct answer is 4) i.e. scenary.

• The correct spelling is scenery.

• Scarce: occurring in small numbers or quantities.

• Scanty: small or insufficient in quantity or amount.

• Scheme: a secret or underhand plan.

Q2. Answer: (a) will be followed by

The correct answer is option 1) i.e. will be followed by.

• The given sentence is in passive voice and in passive voice third form of verb is used.

• Hence, 'will be followed' will be used.

• So, the correct sentence will be: The ceremony will be followed by tea and refreshments for the guests.

Q3. Answer: (d) restricted

The correct answer is option 4) i.e. restricted.

• Accessible: able to be reached or entered.

• Restricted: an area where no one is allowed to enter. Hence, this is the most appropriate antonym of the given word.

• stressed: experiencing mental or emotional strain or tension.

• Attainable: Which can be achieved.

• Reachable: Which can be reached.

Q4. Answer: (b) reject

The correct answer is option 2) i.e. reject.

• Scrap: abolish or cancel (a plan, policy, or law).

• Reject: Dismiss or refuse something, it may be a plan or policy. Hence, this is the most appropriate synonym of the given word.

• Store: keep or accumulate (something) for future use.

• Hoard: accumulate (money or valued objects) and hide or store away.

• Save: keep and store up (something, especially money) for future use.

Q5. Answer: (b) be outdated

The correct answer is option 2) i.e. be outdated.

• Be an old hat: a thing which has been known for a long time but now has become boring and outdated.

Q6. Answer: (b) cautious

The correct answer is option 2 i.e. cautious.

• hasty- done with excessive speed or urgency; hurried.

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• reckless- heedless of danger or the consequences of one's actions; rash or impetuous.
• cautious- (of a person) careful to avoid potential problems or dangers.
• sudden- occurring or done quickly and unexpectedly or without warning.
• urgent- requiring immediate action or attention.
From above we can conclude that option 2 is the antonym of the given word and an appropriate answer.

Q7. Answer: (c) adapt

The correct answer is option 3 i.e. adapt.
adopt- legally take (another's child) and bring it up as one's own.
change- make or become different.
adapt- make (something) suitable for a new use or purpose; modify.
prepare- make (something) ready for use or consideration.
Option 3 is contextually fits the meaning of the given sentence so this is the correct answer.

Q8. Answer: (a) bilingual

The correct answer is option 1 i.e. bilingual.
bilingual- speaking two languages fluently.
multilingual- having, or expressed in several languages
linguist - a person skilled in foreign languages. monolingual- a person who speaks only one language.

Q9. Answer: (c) that grows

The correct answer is option 3 i.e. that grows.
'That' is a relative pronoun here that is used for the flowers and it is a plural noun so the verb used for it must be plural.
For making the sentence correct we need to replace GROWS with GROW.
The correct sentence will be-
The blue lotus is one of the most beautiful flowers that grow in her garden.

Q10. Answer: (d) DBCA

The correct answer is option 4 i.e. DBCA.
The sentence can not start with A and B because it is starting with a pronoun.
Sentence C is also talking about (HIM) and we have to find the noun used for the HIM.
So sentence can start only with the D because it contains the Noun about which the sentence is talking.
So, the correct arrangement is DBCA.

Q11. Answer: (c) to whom he had

The correct answer is option 3 i.e. to whom he had.
Appointment can be followed by multiple prepositions.
Eg: 1) I have an appointment with Ram.
2) I gave an appointment to Radha.
3) Please schedule an appointment for tomorrow.
We have to use here with instead of to for making the sentence correct, since to is used when an appointment is given to someone.
The correct sentence will be- On Saturday Rahul visited his professor with whom he had an appointment.

Q12. Answer: (c) ADBC

The correct answer is option 3 i.e. ADBC.
Sentence can start only with A because all the other sentences contains the pronoun HE that is used for the GOPAL.
Here we have an series of morning schedule in which We have to keep D because after waking up he will put on track suit for going to have morning walk.
And this makes an arrangement of Option 3.

Q13. Answer: (b) descended

The correct answer is option 2 i.e. descended.
declined- (typically of something regarded as good) become smaller, fewer, or less; decrease.
descended- move or fall downwards.

collapsed- (of a structure) suddenly fall down or give way.
grounded- well balanced and sensible.
Option 2 is contextually fits the sentence and gives a proper meaning.

Q14. Answer: (c) ninteenth

The correct answer is option 3 i.e. ninteenth.
nibble- take small bites out of.
nightingale- noted for its rich melodious song which can often be heard at night.
neither- not the one nor the other of two people or things; not either.
The is no word like ninteenth(nineteenth)

Q15. Answer: (d) punish

The correct answer is option 4 i.e. punish.
Avenge- inflict harm in return for (an injury or wrong done to oneself or another).
cheer-shout for joy or in praise or encouragement.
encourage- give support, confidence, or hope to (someone).
comfort- a state of physical ease and freedom from pain or constraint.
punish- inflict a penalty or sanction on.
Option D is the synonym of the given word.

Q16. Answer: (b) make money unfairly

The solution is in Hindi. Read it online.

Q17. Answer: (a) navigate

The correct answer is option 1 i.e. navigate.
navigate- plan and direct the course of a ship, aircraft, or other forms of transport, especially by using instruments or maps.
travel- make a journey, typically of some length.
sail- a wind-catching apparatus attached to the arm of a windmill.
anchor- a heavy object attached to a cable or chain and used to moor a ship to the sea bottom.
Option A defines the written groups perfectly.
So, the option is correct.

Q18. Answer: (b) My car was repaired quite satisfactorily by the mechanic.

• The correct answer is Option 2.
• The given sentence is in past tense so option 1 cannot be the answer as it is in present tense.
• If the active sentence is in past tense, was/were will be used in its passive form therefore, option 2 cannot be the answer.
• Option 4 cannot be the answer because the subject and object have been interchanged.
• Therefore, the only option that satisfies the condition is Option 2.

Q19. Answer: (d) housed above the fourth floor

The correct answer is housed above the fourth floor
Key Points
• The given sentence intends to convey about the government order that all the coaching centres that do not have fire safety arrangements and are above the fourth floor will be shut down immediately
• Here, the adjective form of the word 'house', that is, 'housed' (meaning situated and established)should be used because we are talking about the feature or characteristic of the coaching centre that it is above the fourth floor
• On the other hand, the word 'housing' can be used as either the verb or the noun form of the word 'house'
Thus the correct sentence is: The government has ordered that all the coaching centres without fire safety arrangements housed above the fourth floor be shut down immediately.

Q20. Answer: (d) The stranger asked me if I could tell him the way to the River Bank Colony.

• The correct answer is Option 4.
• Given an active sentence is in interrogative form therefore interrogative will be changed to an assertive sentence. To change the sentence into an indirect sentence, a sentence in the present tense, change it into the corresponding past tense.
• 'Said to' will be changed to 'asked', 'can' will be changed to 'could', second person will be changed to first person.

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• Therefore, all these conditions are satisfied by Option 4.

Q21. Answer: (b) children

• The correct answer is Option 2 i.e. 'children'.

• As it is mentioned in the first sentence about going to the school, so women, men and people do not fit in the blank as we know that children go to the school. So the appropriate answer would be 'children'.

Q22. Answer: (b) every

• The correct answer is Option 2 i.e. 'every'.

• Some day refers to an unspecified but specific day. We do not go to only on a specific day therefore this option cannot be the answer.

• Options 3 & 4 cannot be the answer because 'all' & 'whole' both are plural and follow the plural word 'days'.

• 'Every' determines a countable group(considered individually) which best fits in the blank. 'Every day' which means 'daily'.

Q23. Answer: (c) makes

• The correct answer is Option 3 i.e. 'makes'.

• The sentence is in the present tense so the verb should be in the present tense.

• The subject 'Lakshman' is in singular so the verb should be in singular i.e. 'makes'.

Q24. Answer: (c) which

• The correct answer is Option 3 i.e. 'which'.

• As we are mentioning an object i.e. 'rocky steps' so the best option that fits the blank is 'which'.

• 'Who' cannot be the answer because we are not raising any question here.

• 'Who' & 'whom' refer only to people.

Q25. Answer: (b) nods

• The correct answer is option 2 i.e. 'nods'.

• Option 1 'salutes' means 'A formal gesture made in honor of someone or something'.

• Option 2 'nods' means 'to incline the head up and down as to indicate agreement'.

• Option 3 'wink' means 'To close one's eyes or to blink'.

• Option 4 'shakes' doesn't make any sense in the given blank.

• Therefore, the only option that fits the blank is 'nods'.

Q26. Answer: (a) [figure]

When folded, the transparent sheet will look like the below figure.

Hence, “option 1” is the correct answer.

Q27. Answer: (a) Punishment

Success is the result of Hard Work.

Similarly,

Punishment is the result of Crime.

Hence, “punishment” is the correct answer.

Q28. Answer: (d) 1, 4, 2, 3, 5, 6

The steps in the process of employing a candidate are as follows:

1) Vacant post in organization

4) Inviting applications for post

2) Receiving Applications

3) Conducting written test and interviews

5) Job offer to selected candidates

6) Joining and on-the-job training

Hence, “1, 4, 2, 3, 5, 6” is the correct answer.

Q29. Answer: (c) 26

The triangles are as follows:

ABF, ACG, ADH, AEI, ABY, ACZ, ADA', AEB', AFY, AGZ, AHA', AIB', JOP, JNQ, JAI, JOK, JNL, JAM, JPK, JQL, JIM, TRV, UTW,

JRT, RSV, TWI.

Hence, “26” is the correct answer.

Q30. Answer: (b) QDCBNCC

The pattern is as follows:

1) QDDBCCN → T C Q M B C D N / T D Q M B C D C / T C Q M B N D N → Does not follow any pattern

2) QDCBNCC → T C Q M B C D N / T C Q M B C D N / T C Q M B C D N → Follows a pattern i.e., TCQMBCDN is repeated.

3) TDCBNCD → T C T M B C D N / T C Q M B C D N / T C Q M B D D N → Does not follow any pattern

4) QBCDNNC → T C Q M B C B N / T C Q M D C D N / T N Q M B C D N → Does not follow any pattern

Hence, “QDCBNCC” is the correct answer.

Q31. Answer: (a) [figure]

Figure X is embedded in the below option figure.

Hence, “option 1” is the correct answer.

Q32. Answer: (b) 117

Let the total amount with B be Rs. X.

After giving to C, remaining amount with A = Total amount of A – 11 = X

Total amount of A = X + 11

Given, Total amount of A + Total amount of B = 245

It means, X + 11 + X = 245

2X = 245 – 11 = 234

X = 117

Total amount that B has is Rs. 117

Hence, “117” is the correct answer.

Q33. Answer: (c) RXBU

The pattern followed here is:

4^(th) letter = 1^(st) letter + 3, 2^(nd) letter = 4^(th) letter + 3, third letter = 2^(nd) letter + 3

Hence, “RXBU” is the correct answer.

Q34. Answer: (c) 295

The pattern followed here is:

Hence, “295” is the correct answer.

Q35. Answer: (c) 39 : 351

The pattern followed here is:

53 × 9 = 477

Similarly,

39 × 9 = 351 = 351

Hence, “39 : 351” is the correct answer.

Q36. Answer: (c) Either conclusion I or III follow.

The least possible Venn diagram is as follows:

I. Some bats are crabs → False (it is possible but not definite).

II. No crab is ant → False (some ants are crabs)

III. No bat is crab → False (it is possible but not definite).

Here, I and III form a complementary pair.

Hence, “either conclusion I or III follows” is the correct answer.

Q37. Answer: (b) Mother-in-law

We will use the below table of symbols to create a family tree.

The codes are as follows:

A is			

•	•	×	÷
Sister	Son	Husband	Mother
Of B			

Given statement: P + Q ÷ C – D – L × J means P is the sister of Q who is the mother of C. C is the son of D who is the son of L. L is the husband of J.

The family tree is as follows:

In the above diagram, we can see that J is the mother of D whose wife is Q. So, J is the mother in law of Q.

Hence, “mother in law” is the correct answer.

Q38. Answer: (b) 319

349, 317, and 347 are prime numbers.

But 319 = 11 × 29. Therefore, 319 is a composite number.

Hence, 319 is the odd one among the given alternatives.

Q39. Answer: (d) 6, 7, 85

The pattern followed here is:

8, 9, 145 → $8^2 + 9^2 = 64 + 81 = 145$

Similarly,

6, 7, 85 → $6^2 + 7^2 = 36 + 49 = 85$

Hence, “6, 7, 85” is the correct answer.

Q40. Answer: (b) Worker

Tailors, carpenters, and farmers are different types of professions/workers.

Hence, “Worker” is the odd one among the given options.

Q41. Answer: (b) × and ÷

Given equation: 207 × 9 + 13 ÷ 26 – 301 = 60

1) + and ÷

207 × 9 ÷ 13 + 26 – 301

= 207 × 0.69 + 26 – 301

= 144.69 + 26 - 301

= -130.31 ≠ 60

2) × and ÷

207 ÷ 9 + 13 × 26 – 301

= 23 + 338 – 301

= 361 – 301

= 60

3) + and –

207 × 9 – 13 ÷ 26 + 301

= 1863 – 0.5 + 301

= 2164 - 0.5

= 2163.5 ≠ 60

4) + and ×

207 + 9 × 13 ÷ 26 – 301

= 207 + 9 × 0.5 – 301

= 207 + 4.5 – 301

= 211.5 – 301

= -89.5 ≠ 60

Hence, “× and ÷” is the correct answer.

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Q42. Answer: (d) 3

Adjacent dots to 2 = 1, 6, 4, 3. Therefore, dot 2 is opposite to dot 5.
Adjacent dots to 6 = 1, 2, 3, 5. Therefore, dot 6 is opposite to dot 4.
Therefore, the remaining faces i.e. 1 and 3 will be opposite to each other.
Hence, when one dot is at the bottom the number of dots on the top will be 3.

Q43. Answer: (d) OOZK

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

Q44. Answer: (d) CHGTGYNN

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

Q45. Answer: (b) [figure]

Cucumber and Spices are a part of food.
Hence, “option 2” is the correct answer.

Q46. Answer: (d) 1693202118519

The pattern followed here is:
Every letter is coded by its positional value.
Similarly,
Hence, “1693202118519” is the correct answer.

Q47. Answer: (c) [figure]

The circle flips horizontally in each step.
The square flips vertically in each step. Also, it moves in the anticlockwise direction.
“Hence, “option 3” is the correct answer.

Q48. Answer: (d) [figure]

The mirror image of the question figure is as follows:
Hence, “option 4” is the correct answer.

Q49. Answer: (d) Plants : Botany

The branch of science concerned with the study of fossils is called Paleontology.
Similarly, the branch of science concerned with the study of Plants is called Botany.
Hence, “Plants : Botany” is the correct answer.

Q50. Answer: (d) (48, 31, 76)

The pattern followed here is:
Logic: (1st number + 3rd number) ÷ 4 = 2nd number.
Here, (94, 44, 82)
=> (94 + 82) ÷ 4
=> 176 ÷ 4 = 44.
Similarly, for (48, 31, 76)
=> (48 + 76) ÷ 4
=> 124 ÷ 4 = 31.
Hence, the correct answer is "Option 4".

Q51. Answer: (c) 35%

Given:
CP of 3 articles is Rs.200 each
Total gain percentage on whole transaction = 20%

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Calculation:

Total CP of 3 articles = 200 × 3 = 600

So, SP of all three articles = 600 × 120/100 = 720

SP of 1^(st) article = 200 – 200 × 10% = 180

CP of other 2 article = 400

SP of 2 other article = 720 – 180 = 540

Profit on 2 article = 540 – 400 = 140

Profit percentage of 2 article = (140/400) × 100 = 35%

Therefore The gain percent on the two articles is 35%

Q52. Answer: (c) 189

Given:

x + y + z = 3 and xy + yz + zx = -18

Calculation:

x + y + z = 3

Squaring both sides

$x^2 + y^2 + z^2 + 2(xy + yz + zx) = 9$

$\Rightarrow x^2 + y^2 + z^2 + 2 \times (-18) = 9$

$\Rightarrow x^2 + y^2 + z^2 = 9 + 36 = 45$

Now

$x^3 + y^3 + z^3 – 3xyz = (x + y + z)(x^2 + y^2 + z^2 – xy – yz – zx)$

$= 3 \times [45 – (-18)] = 3 \times 63 = 189$

Therefore $x^3 + y^3 + z^3 – 3xyz = 189$

Q53. Answer: (c) Rs. 13500

Topper's approach:

Required income = 4800 ÷ (0.12 × 0.8) × 100 × 0.27 = 13500

Detailed solution:

Let monthly income be E

According to question

E × 12% × 80% = 4800

$\Rightarrow E \times (12/100) \times (80/100) = 4800$

$\Rightarrow E = 50000$

Therefore Monthly income of Sudha = 50000

Therefore 27% of monthly income = 50000 × 27% = 50000 × 27/100 = 13500 rupees

Q54. Answer: (b) 13 cm

In right angle Δ ADB

$AD=\sqrt{(8^2-4^2)}=\sqrt{(64-16)}=\sqrt{48}=4\sqrt{3}$

In right angle ΔADC

CD = 4 + 7 = 11 cm

AD = $4\sqrt{3}$ cm

$AC = \sqrt{((11)^2 + (4\sqrt{3})^2)} = \sqrt{(121 + 48)} = \sqrt{169} = 13$cm

Q55. Answer: (d) Rs. 13800

Given:

Annual rate = 8%

Since interest compounded half yearly

Therefore r = 4% and time = 2 half yearly

Calculation:

Let the sum be P

P (1 + r/100)^t = 20280

$\Rightarrow P (1 + 4/100)^2 = 20280$

=> P × 104/100 × 104/100 = 20280

=> P = 18750

Now,

P = 18750

Interest = 8 × 2 = 16%

Time = 23/5 year

Simple interest = (p × r × t)/100 = (18750 × 16 × 23)/(5 × 100) = 13800 rupees

Q56. Answer: (a) 13

Area of trapezium = 1/2 (sum of length of parallel sides) × height

=> 180 = 1/2 (10 + 20) × height

=> height = 12 cm

In right angle ΔADE

AD = √((12)² + (5)²) = √169 = 13cm

Therefore Length of each non-parallel side = 13cm

Q57. Answer: (b) 12

Concept used:

Total work = Efficiency × Time

Calculation:

A can do 40% of a work in 6 days

Therefore A can do 100% of the work in 15 days

B can do 30% of the same work in 3 days

Therefore B can do 100% of the same work in 10 days

Total work = LCM of (15 and 10) = 30

Efficiency of A = 30/15 = 2

Efficiency of B = 30/10 = 3

Work done by A and B together in 2 days = 5 × 2 = 10

Remaining work = 30 – 10 = 20

Remaining work done by A = 20/2 = 10 days

Therefore Total Number of days = 10 + 2 = 12 days

Q58. Answer: (d) 60

Calculation:

Let the distance be D km

Speed = Distance/Time = D/(45/60) = 60D/45 = (4D/3) km/h

The speed of train is reduced by 5 km/h

Therefore New speed = (4D/3) – 5 = (4D – 15)/3 km/h

New time = 45min + 3min = 48min

48/60 × (4D – 15)/3 = D

=> 16 (4D – 15) = 60D

=> 4 (4D – 15) = 15D

=> 16D – 60 = 15D

=> D = 60

Therefore The distance = 60 km

Alternate Method

Given:

Time taken to cover a distance is 45 min

If speed reduced by 5 km/hr, so total time taken is (45 + 3) = 48 min

Concept used:

If distance is constant, then speed prop. to 1/time

Speed = Distance/Time

Calculation:

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Let's assume that the initial speed is x km/hr

	Before	After
Time	45	48
Speed	48	45

So, speed difference is (48 - 45) =3 unit → 5 km/hr
So, initial speed 48 unit → 5/3 × 48 = 80 km/hr
Now, in 60 min the train covers 80 km
So, in 45 min the train covers 80/60 × 45 = 60 km
Therefore The distance is 60 km

Q59. Answer: (a) 1 : 1

Ratio of income of A and B = 5 : 3 …(1)
Ratio of expenditure of A and B = 9 : 5 …(2)
Since income of A is twice the expenditure of B
Therefore Multiply eqn..(1) by 2
Now
Ratio of income of A and B = 10 : 6
Also Ratio of expenditure of A and B = 9 : 5
Therefore Ratio of saving of A and B = 1 : 1

Q60. Answer: (c) 73/4

Concept used:
Calculation:
3 × 6 ÷ 4 of 6 – 6 ÷ 2 × (4 - 6) + 4 – 2 × 3 ÷ 6 of 1/3
=> 3 × 6 ÷ 4 of 6 – 6 ÷ 2 × -2 + 4 – 2 × 3 ÷ 6 of 1/3
=> 3 × 6 ÷ 24 – 6 ÷ 2 × -2 + 4 – 2 × 3 ÷ 2
=> 3 × 1/4 – 3 × -2 + 4 – 2 × 3/2
=> 3/4 + 6 + 4 – 3
=> 43/4 – 3
=> 31/4
=> 7 3/4

Q61. Answer: (c) Gain 12.5%

Let shopkeeper has 400 article
Also let the cost price of article = 400 rupees
Therefore MP = 400 + 400 × 25% = 500
MP of 1 article = 500/400 = 5/4
3/4 of the article = 400 × 3/4 = 300
SP of 300 article = 300 × 5/4 = 375
Remaining article = 100
SP of remaining article = 100 × 5/4 × 60/100 = 75
Total SP of 400 article = 375 + 75 = 450
Profit = 450 – 400 = 50
Profit percentage = (50/400) × 100 = 12.5%
Shortcut Trick
Let's assume that the shopkeeper has total article 4
Where 3 article sold at a profit of 25%
And the remaining one sold at [25 - 40 - (40 × 25)/100] = - 25%
So, shopkeeper's total gain
=> (3 × 0.25 - 1 × 0.25)/400 × 100
=> 50/400

=> 12.5%

Q62. Answer: (b) 2

$8(a + b)^3 + (a - b)^3 = (3a + b) (Aa^2 + Bab + Cb^2)$

$=> [2(a + b)]^3 + (a – b)^3 = (3a + b) (Aa^2 + Bab + Cb^2)$

$=> (2a + 2b)^3 + (a – b)^3 = (3a + b) (Aa^2 + Bab + Cb^2)$

$=> (2a + 2b + a – b) [4a^2 + 4b^2 + 8ab + a^2 + b^2 – 2ab – (2a^2 – 2b^2)] = (3a + b) (Aa^2 + Bab + Cb^2)$

$=> (3a + b) (3a^2 + 6ab + 7b^2) = (3a + b) (Aa^2 + Bab + Cb^2)$

$=> (3a^2 + 6ab + 7b^2) = (Aa^2 + Bab + Cb^2)$

By comparing both sides

A = 3, B = 6 and C = 7

Now,

(A + B - C) = (3 + 6 – 7) = 2

Therefore (A + B - C) = 2

Q63. Answer: (a) sin θ

Calculation:

$[\sec\theta (1 – \sin\theta) (\sec\theta + \tan\theta)]/(\sec\theta – \tan\theta)^2 = (1 + k)/(1− k)$

$=> (\sec\theta – \tan\theta) (\sec\theta + \tan\theta)/(\sec\theta – \tan\theta) (\sec\theta – \tan\theta) = (1 + k)/(1− k)$

$=> (\sec\theta + \tan\theta)/(\sec\theta – \tan\theta) = (1 + k)/(1− k)$

By componendo and dividend

$\sec\theta /\tan\theta = 1/k$

$=> (1/\cos\theta)/(\sin\theta/\cos\theta) = 1/k$

$=> 1/\sin\theta = 1\backslash k$

Therefore $k = \sin\theta$

Q64. Answer: (c) 12

Concept used:

When a number is divisible by 72 then it must be divisible by 8 × 9

When a number is divisible by 8 then its last 3 digit must be divisible by 8

Calculation:

5x2 is divisible by 8

When x = 5 or x = 9

We have to take greatest value of x

So x = 9

When a number is divisible by 9 then the sum of its digit must be multiple of 9

7 + 5 + y + 9 + 7 + 4 + 0 + 5 + 9 + 2 = 48 + y

So the possible value of y = 6

Therefore 2x – y = 2 × 9 – 6 = 12

Q65. Answer: (d) 81/3

The expenditure of the company in 2017 = 275

Total revenue of the company in 2014, 2015 and 2016 = 260 + 300 + 340 = 900

Average = 900/3 = 300

The expenditure of the company in 2017 is less than the average revenue (per year) in 2014, 2015 and 2016 = 300 – 275 = 25

Percentage less = 25/300 × 100 = 81/3%

Q66. Answer: (c) 9 : 7

Total revenue of the company in 2015 and 2018 = 300 + 375 = 675

Total expenditure of the company in 2014 and 2018 = 225 + 300 = 525

Required ratio = 675 : 525 = 9 : 7

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Q67. Answer: (b) 55

The total expenditure of the company from 2016 to 2018 = 320 + 275 + 300 = 895

the total revenue for the five year period = 260 + 300 + 340 + 350 + 375 = 1625

Therefore Required percentage = (895/1625) × 100 = 55.07 = 55% approx.

Q68. Answer: (c) 2018

Total revenue in 2014 = 260

Total revenue in 2015 = 300

Increase = 300 – 260 = 40

Percentage increase = (40/260) × 100 = 15.38%

Total revenue in 2015 = 300

Total revenue in 2016 = 340

Increase = 340 – 300 = 40

Percentage increase = (40/300) × 100 = 13.33%

Total revenue in 2016 = 340

Total revenue in 2017 = 350

Increase = 350 – 340 = 10

Percentage increase = (10/340) × 100 = 2.94%

Total revenue in 2017 = 350

Total revenue in 2018 = 375

Increase = 375 – 350 = 25

Percentage increase = (25/350) × 100 = 7.14%

Q69. Answer: (a) 32°

angle ADC = 180° − 74° = 106°

angle BCD = 180° − 62° = 118°

In Δ ADO,

angle O = 180° − (angle OAD + angle ADC)

Therefore angle O = 180° − (62° + 106°) = 180° − 168° = 12°

In Δ PAB

angle P = 180° − (angle PAB + angle PBA)

Therefore angle P = 180° − (62° + 74°) = 44°

Therefore angle P − angle O = 44° − 12° = 32°

Q70. Answer: (c) 51°

Given

angle BAC = 87° and angle C = 42°

angle CAD = 87° − θ

Calculation:

In Δ ADC

87° − θ + 42° + 90° = 180°

Therefore θ = 39°

In triangle ABD

=> angle ABD = 180 - (90 + 39) = 51°

Q71. Answer: (b) 270°

Join AE

Since ACDE is a cyclic quadrilateral

Therefore angle ACD + angle AED = 180° ----(1)

We know that the angle made by diameter at the circumference of the circle is right angle.

=> angle AEB = 90° ----(2)

Adding equation (1) and equation (2),

angle ACD + angle AED + angle AEB = 180° + 90°

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=> angle ACD + angle BED = 270°

Q72. Answer: (a) 38.25

Let the total number = 100

Average = 36 (given)

Total = 36 × 100 = 3600

75% of 100 = 75

Total increase in 75 numbers = 75 × 6 = 450

Total decrease in 25 numbers = 25 × -9 = 225

Therefore Total increase in 100 numbers = 450 – 225 = 225

Now

Total = 3600 + 225 = 3825

Average = 3825/100 = 38.25%

Q73. Answer: (a) 1/2

Calculation:

cosec θ = 1.25 = 125/100 = 5/4 = h/p

b = √(5² - 4²) = √(25 - 16) = 3

Now

(4tanθ - 5cosθ)/(secθ + 4cotθ) = (4 × 4/3 - 5 × 3/5)/(5/3 + 4 × 3/4) = (16/3 - 3)/(5/3 + 3) = (7/3)/(14/3) = 1/2

Q74. Answer: (c) 33

$x^2 – 6x + 1 = 0$

Dividing both sides by x

$x – 6 + (1/x) = 0$

$\Rightarrow x + (1/x) = 6$ …(1)

Cubing both sides

$x^3 + (1/x^3) + \{3(x + 1/x)\} = 216$

$\Rightarrow x^3 + (1/x^3) + 3 \times 6 = 216$

$\Rightarrow x^3 + (1/x^3) = 216 – 18 = 198$ …(2)

Now,

[{x4 + (1/x2)} ÷ (x2 + 1)]

Dividing both numerator and denominator by x

$\{x^3 + (1/x^3)\} \div \{x + (1/x)\}$

= 198/6 = 33

Therefore [{x4 + (1/x2)} ÷ (x2 + 1)] = 33

Q75. Answer: (c) 13/4

Given

$2\cos^2\theta = 3\sin\theta$

Put θ = 30°

2 × 3/4 = 3/2

=> 3/2 = 3/2 (satisfied)

Now

$(\text{cosec}^2\theta – \cot^2\theta + \cos^2\theta)$

$\Rightarrow (\text{cosec}^2 30° – \cot^2 30° + \cos^2 30°)$

$\Rightarrow [(2)^2 – (\sqrt{3})^2 + (\sqrt{3}/2)^2]$

$\Rightarrow 4 – 3 + 3/4$

$\Rightarrow 19/4 – 3$

$\Rightarrow 7/4$

$\Rightarrow 13/4$

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Q76. Answer: (b) The Vice President

The correct answer is option 2, i.e. The Vice President.

• Article 56 of the Indian Constitution makes it clear that the term of the President is five years from the date on which he enters the office.

• His term may terminate earlier

• (i) by resignation addressed to the Vice-President.

• (ii) by removal by impeachment for violation of the Constitution.

Q77. Answer: (a) microcomputers

The correct answer option 1,i.e. microcomputers.

• A small computer that contains a microprocessor as its central processor is known as microcomputers.

• Desktop computers, laptop computers, tablets and smartphones are different types of microcomputers.

• Mainframes are a type of computer that generally is known for their large size, amount of storage, processing power and high level of reliability.

• A supercomputer is a mainframe computer that performs at or near the currently highest operational rate for computers.

• The fastest supercomputers in India are Pratyush and Mihir.

• A minicomputer is a type of computer that possesses most of the features and capabilities of a large computer but is smaller in physical size.

Q78. Answer: (b) Malatimadhava

The correct answer is option 2, i.e. Malati Madhava.

Books	Description of the book	Writer
Malavikagnimitram	It is the first play by Kalidas. It is based on the love story of Agnimitra and Malavika. Agnimitra was the son of the Shunga king.	Mahakavi Kalidas
Malatimadhava	It is a love story of Malti and Madhava, two original historical characters.	Bhavabhuti
Ritusamhara	It is a mini-epic on six Indian seasons. It is writ	Mahakavi Kalidas
Abhijananshakuntala	It is the book based on Sakuntala, the wife of Dushyanta.	Mahakavi Kalidas

Q79. Answer: (a) Rajasthan

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

• India is not a major producer of silver.

• Some Silver deposits found in various states in India, among them Rajasthan(87%) is number one.

• The other states are as follows:

• Jharkhand (5%)

• Andhra Pradesh (4%)

• Karnataka (2%)

• Zawar mines in Udaipur is the largest silver producing mine in the country.

Q80. Answer: (d) Liquidity Coverage Ratio

The correct answer is option 4, i.e. Liquidity Coverage Ratio.

Banking terms	Definition
Cash Reserve Ratio(CRR)	The reserve requirement is a central bank regulation employed by most, but not all, of the world's central banks, that sets the minimum amount of reserves that must be held by a commercial bank.
Base Rate	A base rate is the interest rate that a central bank will charge commercial banks for loans.

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Statutory Liquidity Ratio(SLR)	It is the Government term for the reserve requirement that the commercial banks in India are required to maintain in the form of cash, gold reserves, RBI approved securities before providing credit to the customers.
Liquidity Coverage Ratio(LCR)	It refers to the proportion of highly liquid assets held by financial institutions, to ensure their ongoing ability to meet short-term obligations.

Q81. Answer: (c) Purvanchal

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

• The Purvanchal, also called the Eastern Highlands, mountain ranges in eastern India.

• They are extended over an area of about 37,900 square miles (98,000 square km) in Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, and eastern Assam states.

• The Patkai and other associated mountain ranges (including the Mishmi, Naga, Manipur, Tripura, and Mizo hills) that run through this region are collectively referred to as Purvachal (Purva, means “east,” and anchal, means “mountain”).

• The area is bounded by Bangladesh to the southwest, Myanmar (Burma) to the southeast, and China to the northeast.

Q82. Answer: (b) Neyyar River

The correct answer is option 2, i.e. Neyyar River.

• Neyyar river flows through Thiruvananthapuram district and it originates from Agastyarkoodam hills.

• It is a west-flowing river and empties into the Arabian sea.

• Its length is 56 Kms.

• Some tributaries of this river are Kallar, Mullayar, Karavaliyar, etc.

• The Neyyar wildlife sanctuary lies near this river.

• Neyyar dam is built across the Neyyar river.

Q83. Answer: (b) Claude Shannon

The correct answer is option 2,i.e. Claude Shannon

• Claude Elwood Shannon is considered as the founding father of electronic communications age and he pioneered binary logic and arithmetic in computers programming.

• He is an American mathematical engineer, whose work on technical and engineering problems within the communications industry, laying the groundwork for both the computer industry and telecommunications.

• After Shannon noticed the similarity between Boolean algebra and the telephone switching circuits, he applied Boolean algebra to electrical systems at the Massachusetts Institute of Technology (MIT) in 1940.

• Later he joined the staff of Bell Telephone Laboratories in 1942. While working at Bell Laboratories, he formulated a theory explaining the communication of information and worked on the problem of most efficiently transmitting information.

Q84. Answer: (b) Volodymyr Zelensky

The correct answer is option 2, i.e. Volodymyr Zelensky.

• Volodymyr Zelensky is a former comedian and TV star of Ukraine, who had no political experience.

• He won a landslide victory in Ukraine's presidential election in April.

Q85. Answer: (d) 177

The correct answer is option 4,i.e. 177.

• The 2018 Environmental Performance Index (EPI) finds that air quality is the leading environmental threat to public health.

• The tenth EPI report ranks 180 countries on 24 performance indicators across 10 issue categories covering environmental health and ecosystem vitality.

• Switzerland leads the world in sustainability, followed by France, Denmark, Malta, and Sweden.

• India's rank is 177th and China is on 120th position.

Q86. Answer: (c) Kami Rita Sherpa

The correct answer is option 3,i.e. Kami Rita Sherpa.

• Nepali mountain guide Kami Rita Sherpa set a new record by climbing Everest a 23rd time.

• A guide for more than two decades, Sherpa first summited the 8,848-metre peak, the world’s highest, in 1994 while working for a commercial expedition.

• The 49-year-old has made 35 summits on five 8,000-metre peaks, including the world’s second-highest mountain, K2 in the

Chinese-administered enclave of the Kashmir region within the Uygur Autonomous Region of Xinjiang, China, and partly in the Gilgit-Baltistan portion of Kashmir.

Q87. Answer: (c) A K Sikri

The correct answer is option 3,i.e. A K Sikri.

• Justice AK Sikri was recently appointed as the chairperson of the news broadcasting standards authority(NBSA) by the news broadcasters association(NBA).

• He was appointed as judge of the Delhi high court in 1999.

• He served as a chief justice of the Punjab and Haryana high court and acting chief justice of Delhi high court.

• He was also appointed as an international judge of the Singapore international commercial court.

Q88. Answer: (c) Telangana

the correct answer is option 3,i.e. Telangana.

• In a small town, 90 kilometres away from Hyderabad, Telangana, lives the Nakashi family protecting and propagating Cheriyal, an art form of painting scrolls for storytelling.

• The art is named after the town.

• The form was practised by the family and their ancestors since the 12th Century.

Q89. Answer: (c) Pascal

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

Concept:

Physical quantity	Formula	SI unit
Volt	V = Work/Charge	Volt
Pressure	P = Force/Area	Pascal or N/m^2
Current	I = Charge/time	Ampere
Resistance	R=ρl/A	Ohm (Ω)

Explanation:

From the above explanation, we can see that,

• The pascal is the SI derived unit of pressure used to quantify internal pressure, stress, Young's modulus and ultimate tensile strength.

• It is named after the French polymath Blaise Pascal.

• 1 pascal = 1 N m^(-2)

Q90. Answer: (a) Kyrgyzstan

The correct answer is option 1,i.e.

• The Second Shanghai Cooperation Organization (SCO) Mass Media Forum is being held at Bishkek, Kyrgyzstan from 23-26 May, 2019.

• A Delegation from I&B Ministry comprising of Shri TVK Reddy, Addl. Director General and Shri Ankur Lahoty, Asst. Director is representing India at the Forum.

• The Forum was inaugurated by the President of Kyrgyz Republic Mr. S. Jeenbeko.

• The President in his inaugural address highlighted the importance of Mass Media organizations of SCO countries in accomplishing the SCO objectives of mutual trust, friendly relations with neighbors and regional security in line with the “Shanghai Spirit”.

Q91. Answer: (d) Gymnosperms

The correct answer is solution 4, i.e. Gymnosperms.

• Gymnosperms are the flowerless plant that produces cones and seeds.

• The term gymnosperm literally means "naked seed," as gymnosperm seeds are not encased within an ovary. Rather, they sit exposed on the surface of leaf-like structures called bracts.

• Gymnosperms are vascular plants of the sub kingdom Embyophyta and include conifers, cycads, ginkgoes, and gnetophytes.

• Some of the most recognizable examples of these woody shrubs and trees include pines, spruces, firs, and ginkgoes.

• Gymnosperms are abundant in temperate forest and boreal forest biomes with species that can tolerate moist or dry conditions.

• Bryophyte, the traditional name for any nonvascular seedless plant—namely,

• mosses (division Bryophyta),

• hornworts (division Anthocerotophyta),

• liverworts (division Marchantiophyta).

• Most bryophytes lack complex tissue organization, yet they show considerable diversity in form and ecology. They are widely distributed throughout the world and are relatively small compared with most seed-bearing plants.

• Angiosperm, any of about 300,000 species of flowering plants, the largest and most diverse group within the kingdom Plantae. Angiosperms represent approximately 80 per cent of all the known green plants now living. The angiosperms are vascular seed plants in which the ovule (egg) is fertilized and develops into a seed in an enclosed hollow ovary. eg- Mango, Lemon etc.

• Hydrophytes are aquatic plants that are especially suited for living in aquatic environments. eg- Potamogeton crispus, Ceratophyllum and Hydrilla

Q92. Answer: (d) Sachin Tendulkar

The correct answer is option 4, i.e. Sachin Tendulkar

Books name	Related Person
Straight from the Heart	Kapil Dev
Playing It My Way	Sachin Tendulkar

• Leander Paes and Mahesh Bhupathi are the well-known Indian tennis player.

• Kapil Dev and Sachin Tendulkar are the famous Indian cricketer.

Q93. Answer: (b) Jamaat-ul-Mujahideen Bangladesh

The correct answer is option 2, i.e. Jamaat-ul-Mujahideen Bangladesh.

• The Jamaat-ul-Mujahideen Bangladesh also called as Jamaat-ul-Mujahideen India or Jamaat-ul-Mujahideen Hindustan has been declared as a banned terrorist organisation by the Home Ministry in May 2019

• All its manifestations have been inserted in the First Schedule to the Unlawful Activities (Prevention) Act, 1967.

Q94. Answer: (b) N K Singh

The correct answer is option 2,i.e. N K Singh.

• The Finance Commission is a constitutional body, that determines the method and formula for distributing the tax proceeds between the Centre and states, and among the states as per the constitutional arrangement and present requirements.

• Under Article 280 of the Constitution, the President of India is required to constitute a Finance Commission at an interval of five years or earlier.

• The Finance Commission has a chairman and four members appointed by the President.

• In November 2017, President of India constituted the 15th Finance Commission and appointed former Planning Commission Member N K Singh as its chairman.

• The First Finance Commission was constituted under the chairmanship of Shri K.C. Neogy on 6th April 1952.

Q95. Answer: (a) Peter Gilchrist

The correct answer is option 1,i.e. Peter Gilchrist.

• Peter Gilchrist won the 2019 Pacific International Billiard Championship.

• The runner up was Sourav Kothari.

• This championship held in Melbourne, Australia.

Q96. Answer: (b) Afzal Khan

The correct answer is Afzal Khan.

• Afzal Khan was the general of the Adil Shahi dynasty of Bijapur.

• Present-day Karnataka was known as Bijapur.

• He fought against Chhatrapati Shivaji in the Battle of Pratapgarh in 1659.

Important Points

• Battle of Pratapgarh:

• A meeting was arranged between Shivaji and Afzal Khan at a shamiyana at the foothills of Pratapgad.

• Nevertheless, both were prepared for treachery: Afzal Khan hid a katyar (a small dagger) in his coat, and Shivaji wore armor underneath his clothes and carried a concealed Baghnakha (tiger claw) in one hand.

• Shivaji used his “bagh Nakh” (tiger claws) to slash Khan’s stomach and disemboweled Khan.

Q97. Answer: (d) Karnataka

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

• Ibrahim Sutar, known as Kannada Kabir.

• He was born at Mahalingapura in Mudhol taluk in Bagalkot district in 1940.

• He set up Harmony Folk Music Mela, a team of artists in 1970.

• He is known for spreading social and communal harmony through his songs and bajanas for the last 40 years in Karnataka and neighbouring states.

• He used funds collected at his performances and organised social welfare programmes including yoga sessions, set up tanks in villages and built classrooms to government schools.

• He won Padma Shri award in 2018.

Q98. Answer: (c) Rajkumari Amrit Kaur

The correct answer is option 3, i.e. Rajkumari Amrit Kaur

• Rajkumari Amrit Kaur was born in 1889 in a royal family in Lucknow.

• She was graduated from Oxford University.

• She co-founded the All India Woman's Conference in 1927.

• She participated in the Dandi March movement in 1930.

• She held the post of Health Minister in the Prime Minister's cabinet after the Independence and became the first Health Minister of independent India.

• She also became the first female and first Asian president of the World Health Assembly in 1950.

• The establishment of the All India Institute of Medical Sciences (AIIMS) was initiated by her and she served as its first president.

• She was the Chairperson of the Indian Red Cross for fourteen years.

• She also worked as an activist to reduce illiteracy and eradicate child marriage.

Q99. Answer: (a) Mumps

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

• Mumps is a viral infection that primarily affects saliva-producing (salivary) glands that are located near ears.

• Mumps can cause swelling in one or both of these glands.

• Mumps is an airborne disease and can be spread by an infected person coughing or sneezing and releasing tiny droplets of contaminated saliva, which can then be breathed in by another person.

• Hepatitis, Cholera and Typhoid are waterborne diseases.

Q100. Answer: (b) Shikhar Dhawan

The correct answer is option 2,i.e. Shikhar Dhawan.

• Shikhar Dhawan is an Indian Cricketer born in Delhi on Dec 5, 1985.

• He is a Left-handed batsman.

• Shikhar Dhawan shot to fame after an unprecedented run in the 2004 U-19 World Cup, where he scored 505 runs garnished with 3 hundreds.

• India vs Australia at Punjab Cricket Association IS Bindra Stadium, Mar 14, 2013, was his first Test debut.

• India vs Australia at Dr Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium, Oct 20, 2010, was his first ODI debut.

• India vs West Indies at Queen's Park Oval, Jun 04, 2011, was his first T20 debut.

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