SSC CHSL Previous Paper 19 (Held On: 9 Jul 2019 Shift 3) (Previous Year Paper)

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

Take this paper as a timed mock test

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

yourmocktest.com/pyq/ssc-chsl/ssc-chsl-previous-paper-19-held-on-9-jul-2019-shift-3-previous…

Scan the QR code or click the link to open it.

YourMockTest.com — Free Study Material

ENGLISH LANGUAGE

Q1. Select the most appropriate antonym of the given word.

CHRONIC

(a) continuing
(b) infrequent
(c) routine
(d) regular

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

It is not the _____ of linguistic skill that makes one an ineffective speaker; it is the dearth of ideas.

(a) complexity
(b) difficulty
(c) poverty
(d) intricacy

Q3. 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 express bus generally stops at only the major towns on the route.

(a) generally stop in only the major towns
(b) generally stopped from only the major towns
(c) generally stopping on only the major towns
(d) No improvement

Q4. 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.

If I does not pay my post-paid mobile bill by tomorrow I will probably have to pay a fine.

(a) If I has not paid
(b) No improvement
(c) If I do not pay
(d) If I had not paid

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.

After a lesson on negative sentences, a pupil tells his teacher, "I ain't got no pencils." She corrects him immediately saying, "The correct way to say (1) ____ is, "I don't have any pencils". "We don't (2) __ any pencils." "He (3) __ have any pencils. They don't have any pencils. (4) __ you understand?" asks the teacher. "No," the boy answers, astonished. "(5) ____ happened to all the pencils?"

Q5. Select the most appropriate option to fill in blank No.1.

(a) which
(b) it
(c) them
(d) those

Q6. Select the most appropriate option to fill in blank No.2.

(a) had
(b) having
(c) have
(d) has

Q7. Select the most appropriate option to fill in blank No.3.

(a) do
(b) don't
(c) does
(d) doesn't

Q8. Select the most appropriate option to fill in blank No.4.

(a) Does
(b) Doesn't
(c) Have
(d) Do

Q9. Select the most appropriate option to fill in blank No.5.

(a) Which
(b) What
(c) Where
(d) How

Q10. Select the most appropriate meaning of the given idiom

draw a blank

(a) be happy about something
(b) be lucky in a game
(c) be unsuccessful
(d) be unable to sketch

Q11. Select the correctly spelt word.

(a) turbulence
(b) turbulance
(c) turbulense
(d) terbulence

Q12. Select the wrongly spelt word.

(a) comencement
(b) resentment
(c) triangulation
(d) continuation

Q13. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. But now that his father had asked him to fetch some cheroots, he would have to pass by the high school to reach the shop.

B. The teachers and students would all be there, and he was ashamed of being seen outdoors.

C. Of late Krishna had confined himself to the four walls of the house.

D. Wondering how to get past the school unnoticed, he slowly ventured out.

YourMockTest.com — Free Study Material

(a) CABD
(b) CBDA
(c) ACBD
(d) DACB

Q14. Identify the segment in the sentence which contains the grammatical error.
The childrens are fond of climbing the mango tree in the garden.
(a) in the garden
(b) are fond of
(c) The childrens
(d) climbing the mango tree

Q15. Select the most appropriate word for the given group of words.
A person who is skilled at writing beautifully
(a) cartoonist
(b) calligrapher
(c) painter
(d) artist

Q16. Select the correct passive form of the given sentence.
They will not allow mobile phones in the examination hall.
(a) Mobile phones will not be allowed in the examination hall.
(b) Mobile phones were not allowed in the examination hall.
(c) Mobile phones are not allowed in the examination hall.
(d) Mobile phones are not being allowed in the examination hall.

Q17. Select the correct indirect form of the given sentence.
The doctor told his patient, "Continue the same course of medicines for the next week."
(a) The doctor told his patient that he may continue the same course of medicines in the following week.
(b) The doctor told his patient to continue the same course of medicines for the following week.
(c) The doctor told his patient for continuing the same course of medicines for the next week.
(d) The doctor told his patient to continued the same course of medicines in the next week.

Q18. Select the most appropriate antonym of the given word.
MENTAL
(a) physical
(b) brainy
(c) ability
(d) strength

Q19. Select the most appropriate word for the given group of words.
The statistical study of the population
(a) anthropology
(b) sociology
(c) demography
(d) psychology

Q20. Select the most appropriate synonym of the given word.
FLEETING
(a) ready
(b) lasting
(c) complete
(d) momentary

YourMockTest.com — Free Study Material

Q21. Select the most appropriate synonym of the given word.

ANOMALOUS

(a) indirect
(b) peculiar
(c) common
(d) unhealthy

Q22. Select the most appropriate meaning of the given idiom

late in the day

(a) too delayed to be of any use
(b) too old to work
(c) too ripe to eat
(d) too dark to see anything

Q23. Identify the segment in the sentence which contains the grammatical error.

The two states frequently has differences over the use of the river water, especially during the summer months.

(a) The two states frequently
(b) over the use of the river water
(c) especially during the summer months
(d) has differences

Q24. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Today, man is master of the world and he makes the animals do what he likes.

B. Others he eats; and those like the lion and the tiger, he shoots for pleasure.

C. Early man, when he first came, must have been surrounded by many huge animals, and he must have lived in fear of them.

D. Some he tames like the horse, the cow, the elephant, the dog, the cat and so many others.

(a) BCDA
(b) CADB
(c) ACBD
(d) CBDA

Q25. Select the most appropriate word to fill in the blank.

The Chairman advised them to build a bridge between the two companies using _____ and compromise.

(a) control
(b) negotiation
(c) competition
(d) strength

GENERAL INTELLIGENCE

Q26. In a code language, MYCOLOGY is written as PBFRORJV. How will AMMONIA be written as in that language?

(a) DPPRQLX
(b) DPJRQLX
(c) DPQRQLD
(d) CPPSQJX

Q27. Which number will replace the question mark (?) in the following series?

6, 10, 26, 62, ?

(a) 216
(b) 92
(c) 126
(d) 112

YourMockTest.com — Free Study Material

Q28. Three of the following four letter-clusters are alike in a certain way and one is different.

Pick the odd one out.

(a) HJL
(b) SUV
(c) BDF
(d) NPR

Q29. 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.

13 : 65

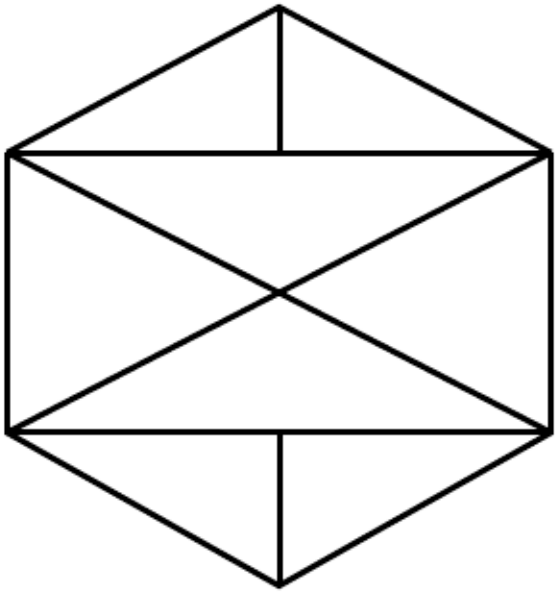
(a) 19 : 95
(b) 21 : 85
(c) 17 : 42
(d) 12 : 45

Q30. Arrange the following words in a logical and meaningful order.

1. Childhood
2. Adulthood
3. Infancy
4. Adolescence
5. Senility

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

Q31. How many triangles are present in the following figure?



(a) 13
(b) 10
(c) 9
(d) 12

Q32. 'Lizard' is related to 'Reptiles' in the same way as 'Toad' is related to '____'.

(a) Amphibians
(b) Vertibreta
(c) Reptiles

YourMockTest.com — Free Study Material

(d) Mammals

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

(a) Cat
(b) Cow
(c) Goat
(d) Wolf

Q34. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(7, 4, 65)

(a) (11, 8, 105)
(b) (6, 4, 70)
(c) (9, 6, 80)
(d) (5, 4, 41)

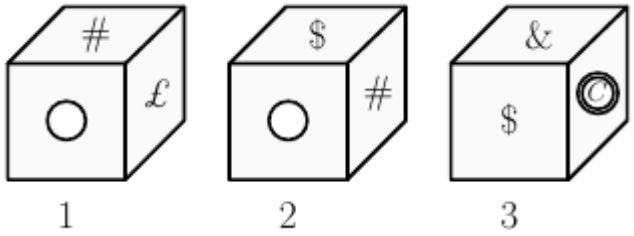
Q35. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
Ginger : Stem : : Chilli : ?

(a) Fruit
(b) Flower
(c) Root
(d) Stem

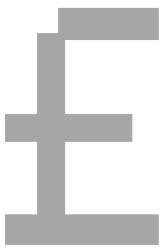
Q36. If RUBY is coded as 264 and PAY is coded as 126, then how will RUPAY be coded as?

(a) 405
(b) 375
(c) 145
(d) 81

Q37. Three different positions of the same dice are shown. Select the option that will be opposite to the face having '$'.

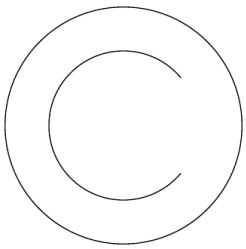


(a)

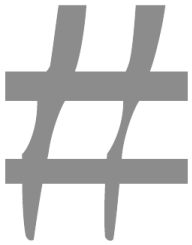


YourMockTest.com — Free Study Material

(b)



(c)



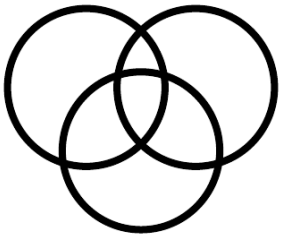
(d)



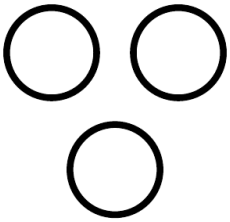
Q38. Select the Venn diagram that best illustrates the relationship between the following classes.

Doctors, Males, Brothers

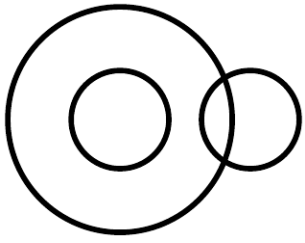
(a)



(b)

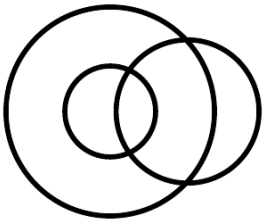


(c)



YourMockTest.com — Free Study Material

(d)



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.

Important : Essential

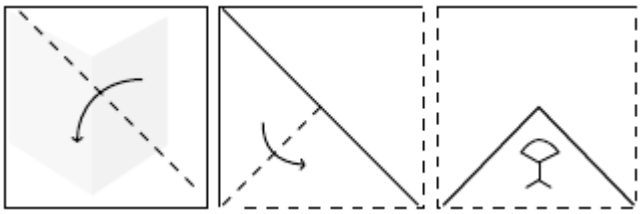
(a) Never : Always
(b) Up : Down
(c) Pick : Drop
(d) Awful : Horrible

Q40. Which two signs and two numbers should be interchanged in the following equation to make it correct?

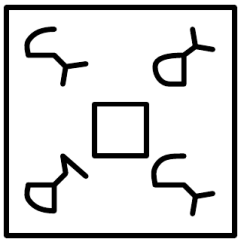
18 + 25 - 10 × 10 ÷ 5 = 203

(a) • and -, 18 and 25
(b) × and -, 18 and 25
(c) • and ÷, 18 and 5
(d) × and ÷, 25 and 5

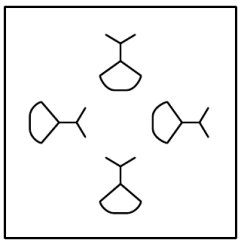
Q41. A paper is folded and cut as shown in the following problem figures (X, Y and Z). Select the answer figure that depicts how the paper will appear when unfolded.



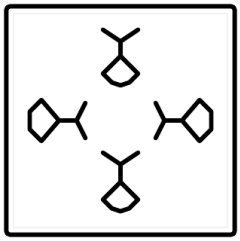
(a)



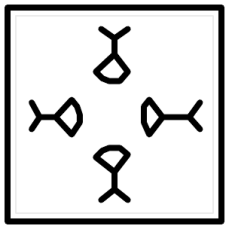
(b)



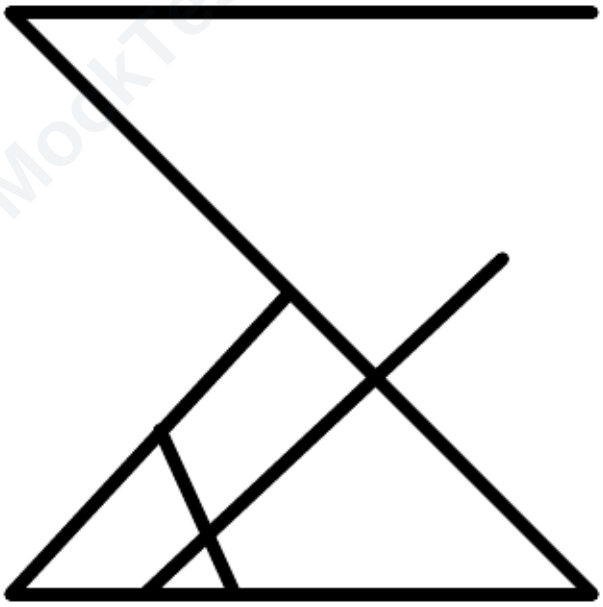
(c)



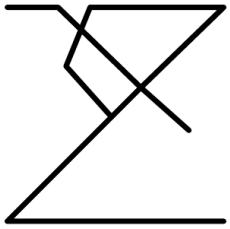
(d)



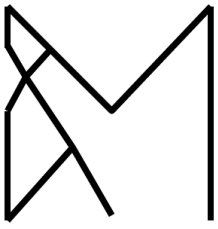
Q42. Select the correct mirror image of the given figure when the mirror is placed at the bottom of the figure.



(a)

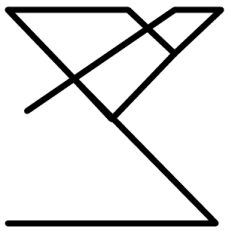


(b)

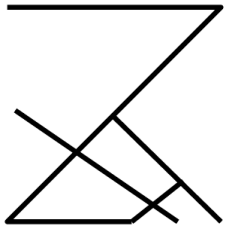


YourMockTest.com — Free Study Material

(c)



(d)



Q43. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(16, 4, 80)

(a) (13, 5, 78)
(b) (11, 7, 77)
(c) (6, 7, 40)
(d) (5, 5, 70)

Q44. Sona is sister of Ramesh and daughter of Mohit. Rama is wife of Mohit and Mother of Prabhat. How Ramesh is related to Prabhat?

(a) Cousin
(b) Brother
(c) Father
(d) Son

Q45. 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) 87
(b) 71
(c) 73
(d) 59

Q46. 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 eggs are hens.

All hens are birds.

All birds are crows.

Conclusions:

I. All eggs are crows.

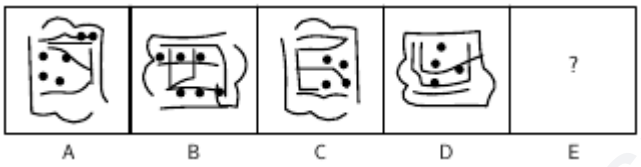
II. All hens are crows.

III. Some crows are birds.

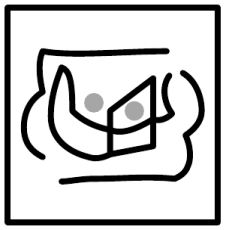
(a) Only conclusion I and II follow.
(b) All conclusions I, II and III follow.
(c) Only conclusion I follows.
(d) Only conclusion II and III follow.

YourMockTest.com — Free Study Material

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



(a)



(b)



(c)



(d)

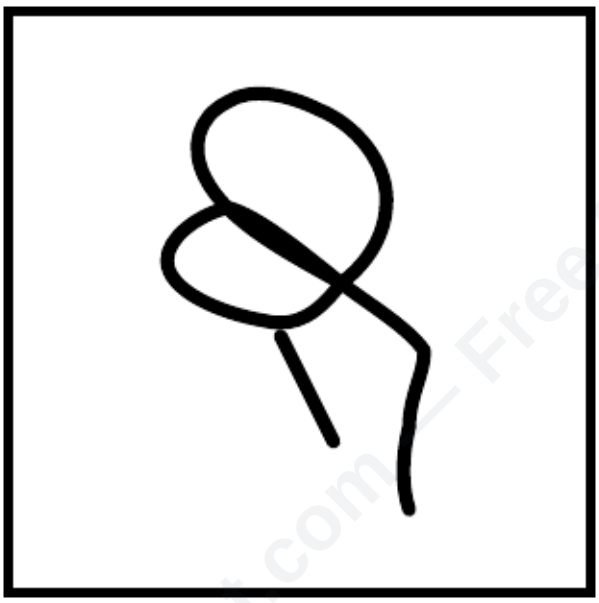


Q48. What will be the day of the week on 15 August 2021?

(a) Monday
(b) Saturday
(c) Wednesday
(d) Sunday

Q49. Select the option in which the given figure X is embedded. (Rotation not allowed)

Free Study Material — YourMockTest.com



(a)



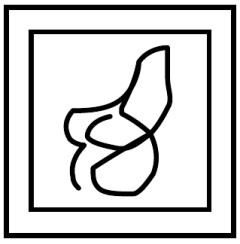
(b)



(c)



(d)



YourMockTest.com Free Study Material

Q50. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

OL, QO, __, UU, WX

(a) SU
(b) RS
(c) ST
(d) SR

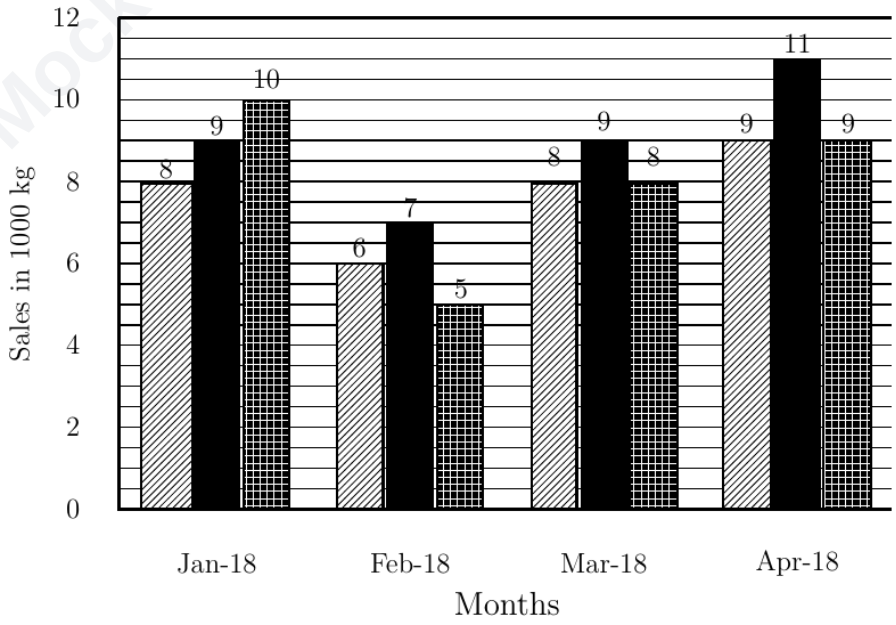
QUANTITATIVE APTITUDE

Q51. The simplified value of 21/3 of (3/5 ÷ 2/9) - (42/5 + 19/20 ÷ 1/2) is:

(a) 12
(b) 14
(c) 0
(d) 1

Directions

Directions: The given Bar Graph presents the sale (in 1000 kg) of a particular brand of tea by three outlets, A, B and C during the months Jan, Feb, Mar and Apr, 2018.



Q52. By how much quantity is the average sale per month from B more or less than that from C?

(a) More by 500 kg
(b) Less by 1000 kg
(c) More by 1000 kg
(d) Less by 800 kg

Q53. What is the average sale per month by A during Jan-Mar, 2018?

(a) 7505 kg
(b) 7333.33 kg
(c) 7334.67 kg
(d) 5500 kg

YourMockTest.com — Free Study Material

Q54. Arrange the ratio of sales from B to that from A and C, taken together, month wise in ascending order.

(a) Jan, Feb, Mar, Apr
(b) Jan, Apr, Mar, Feb
(c) Jan, Mar, Apr, Feb
(d) Jan, Mar, Feb, Apr

Q55. What is the ratio of rate of growth in sales from B to the rate of growth in sales from C in Mar 2018 with reference to its previous month?

(a) 9 : 19
(b) 10 : 19
(c) 10 : 21
(d) 9 : 16

Q56. The circumcentre, incentre, orthocentre and the centroid of a triangle are one and the same point. The triangle must be:

(a) isosceles (b) right-angled (c) right-angled isosceles (d) equilateral

(a) (b)
(b) (d)
(c) (c)
(d) (a)

Q57. Two items are sold for Rs. 18,602 each. On one item there has been a gain of 31% and on the second item a loss of 29%. What was the overall loss or gain in the transaction?

(a) Gain 7.91%
(b) Loss 8.25%
(c) Gain 8.25%
(d) Loss 7.91%

Q58. For θ being an acute angle, it is given that, $3 (\text{cosec}^2 \theta + \cot^2 \theta) = 5$. Then θ is equal to:

(a) 0°
(b) 30°
(c) 45°
(d) 60°

Q59. In a triangle ABC, PQ is a straight line parallel to AC, such that Area ABC : Area PBQ = 3 : 1 Then CB : CQ is equal to:

(a) $\sqrt{3}(\sqrt{3} – 1) : 2$
(b) $\sqrt{3} : 2$
(c) $\sqrt{3} – 2 : 2$
(d) $\sqrt{3}(\sqrt{3} + 1) : 2$

Q60. The value of the expression $1/4\{(a + 1/a)^2 - (a - 1/a)^2\}$ is:

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

Q61. The average of a number and its reciprocal is 4. The average of its cube and its reciprocal is equal to:

(a) 142
(b) 244
(c) 288
(d) 256

YourMockTest.com — Free Study Material

Q62. Which among the following increases continuously in the range $0° < \theta < 90°$?

(a) $\tan\theta$
(b) $\text{cosec}\theta$
(c) $\cot\theta$
(d) $\cos\theta$

Q63. If a : b : c = 1 : 3 : 5, what is the value of $(4a - b + 2c)/(3(a + b + c))$?

(a) 10/27
(b) 8/27
(c) 11/27
(d) 1/3

Q64. The seven digit number 78x1y68 is divisible by 88. The value of (x + y) is:

(a) 10
(b) 11
(c) 14
(d) 13

Q65. If $(3x + 1)^3 + (x - 3)^3 + (2x - 4)^3 = 3 (3x + 1) (x - 3) (2x - 4)$, then x is equal to:

(a) 2
(b) 3
(c) 1
(d) -13

Q66. The simplified value of (1.0025 + 6.25 × 10^(- 6))/(0.0025 + 0.95) is:

(a) 1.0005
(b) 1.0525
(c) 1.0505
(d) 1.0025

Q67. A certain sum invested on compound interest grows to Rs. 8,000 and Rs. 27,000 in three and six years, respectively when the interest is compounded annually, what is the percentage rate of interest?

(a) 10%
(b) 0.5%
(c) 50%
(d) 25%

Q68. If I travel by bus, I reach my office 15 min late, and if I travel by car, I reach 10 min early. If the distance between my home and my office is 25 km, then the difference of the reciprocals of average speeds of the bus and the car, in second per metre is:

(a) 3/20
(b) 3/50
(c) 3/25
(d) 3/10

Q69. In a stadium an athlete is running on a circular path with uniform speed during a practice session. The angle covered by him during one second is found to be 10° by coach observing him from the centre of the circular track. What would be the measure of angle (in degree) described by the athlete by an observer standing on the circle?

(a) it depends on the exact position of the observer on the circle
(b) 20
(c) 10
(d) 5

YourMockTest.com — Free Study Material

Q70. If A, B and C can respectively complete a piece of work in 20, 24 and 36 days respectively, how many days will they take to complete the work. If they work together?

(a) 816/43
(b) 61/4
(c) 91/4
(d) 719/20

Q71. Two chords AB and CD of a circle intersect at a point O inside the circle. It is given that AO = 1 cm, AB = 13 cm, CD = 8 cm. what is the ratio between the larger and smaller section among CO and OD?

(a) 3 : 1
(b) 5 : 3
(c) 9 : 7
(d) 11 : 5

Q72. For an examination of a practical based subject, the total marks is 100. The break-up for theory, practical, project and viva voce is 40%, 30%, 20%, 10%. A candidate scored 80% in theory, 70% in practical, 60% in project and 50% in viva voce. What was her aggregate percentage?

(a) 70
(b) 68
(c) 67
(d) 72

Q73. The diagonals of rhombus are respectively 4 cm and 12 cm. Its area (in cm^2) is equal to:

(a) 24
(b) 36
(c) 8
(d) 12

Q74. An article is sold for Rs. 688.16 after two successive discounts of 12% and 8% respectively. What is its marked price?

(a) Rs. 900
(b) Rs. 800
(c) Rs. 820
(d) Rs. 850

Q75. If θ is an acute angle, and its is given that $5 \sin\theta + 12 \cos\theta = 13$, then what is the value of $\tan\theta$?

(a) 5/13
(b) 12/13
(c) 13/12
(d) 5/12

GENERAL AWARENESS

Q76. A savings fund in which both, the employer and the employee contribute regularly in the interest of the employee is known as:

(a) Balanced Fund
(b) Provident Fund
(c) Index Fund
(d) Mutual Fund

Q77. Burzahom, the neolithic site, is located in _____.

(a) Jammu and Kashmir
(b) Mizoram
(c) Karnataka
(d) Goa

YourMockTest.com — Free Study Material

Q78. Which of the following is a supercomputer developed by India?

(a) Pixir
(b) Param Yuva 2
(c) Onshape
(d) Venngage

Q79. Which of the following rivers originates from Mahabaleshwar?

(a) Sabarmati
(b) Kaveri
(c) Tapi
(d) Krishna

Q80. Who among the following was appointed as the first Viceroy of British India?

(a) Lord Irwin
(b) Lord Mayo
(c) Lord Canning
(d) Lord Wavell

Q81. The Hirakud Dam is built across the river:

(a) Tungabhadra
(b) Koyna
(c) Mahanadi
(d) Damodar

Q82. Which of the following companies is a Navratna company?

(a) Engineers India Limited
(b) Rashtriya Chemicals and Fertilizers Limited
(c) Steel Authority of India Limited
(d) Coal India Limited

Q83. 'Freedom in Exile' is the autobiography of _____.

(a) Mahatma Gandhi
(b) Nelson Mandela
(c) Jiddu Krishnamurti
(d) Dalai Lama

Q84. In which of the following states is Ashtamudi Lake situated?

(a) Odisha
(b) Tamil Nadu
(c) Kerala
(d) Andhra Pradesh

Q85. Which of the followings, is NOT a Peninsular river?

(a) Krishna
(b) Narmada
(c) Alaknanda
(d) Mahanadi

Q86. With reference to Remote Sensing Technology, what does LIDAR stand for?

(a) Light Direction and Revolving
(b) Light Dimension and Reflection
(c) Light Detection and Ranging
(d) Light Distraction and Refraction

YourMockTest.com — Free Study Material

Q87. Which of the following Articles of the Constitution of India is associated with the election of the President of India?

(a) Article 74
(b) Article 54
(c) Article 78
(d) Article 103

Q88. Who is the author of the book 'The End of Imagination'?

(a) Arundhati Roy
(b) Shobhaa De
(c) Chetan Bhagat
(d) Amitav Ghosh

Q89. India and Asia's first Dolphin Research Centre will be set up in _____.

(a) Varanasi
(b) Haridwar
(c) Patna
(d) Devprayag

Q90. According to Randstad Employer Brand Research 2019 Report, which of the following has been rated as India's most attractive employer brand?

(a) Amazon India
(b) Larsen and Toubro
(c) Microsoft
(d) Samsung

Q91. Who among the following was appointed as the first Deputy Speaker of the Lok Sabha?

(a) M. Ananthasayanam Ayyangar
(b) V Narahari Rao
(c) Vithalbhai J Patel
(d) G V Mavalankar

Q92. Which of the following is NOT an anti-virus software?

(a) Kaspersky
(b) Norton
(c) Linux
(d) Avast

Q93. The 1979 Cricket World Cup was won by _____.

(a) Australia
(b) West Indies
(c) Sri Lanka
(d) England

Q94. Who among the following first translated the 'Bhagvad Gita' into English?

(a) George Yule
(b) Vincent Arthur Smith
(c) Max Muller
(d) Charles Wilkins

Q95. Which of the following temples is correctly matched with its location?

(a) Mallikarjuna-Andhra Pradesh
(b) Baidyanathdham-Odisha
(c) Trimbakeshwar-Karnataka
(d) Somnath-Bihar

YourMockTest.com — Free Study Material

Q96. The National Institute of Mental Health and Neuro Sciences (NIMHANS) is located in:

(a) Indore
(b) Kolkata
(c) Puducherry
(d) Bengaluru

Q97. With which of the following sports is the Derby Trophy associated?

(a) Golf
(b) Chess
(c) Snooker
(d) Horse Racing

Q98. Who was appointed as the new Director General of Inter Service Intelligence (ISI) of Pakistan in June 2019?

(a) Faiz Hameed
(b) Rizwan Akhtar
(c) Riaz Hussain
(d) Hamid Gul

Q99. Which of the following is a ProKabbadi Team?

(a) Sunrisers Hyderabad
(b) Delhi Capitals
(c) Telugu Titans
(d) Mumbai Indians

Q100. Which of the following vehicles launched the RISAT-2B satellite in May 2019 from Satish Dhawan Space Centre?

(a) PSLV-C46
(b) PSLV- C41
(c) PSLV-C42
(d) PSLV-C26

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) infrequent

The meanings of the given words are as follows:
chronic: constantly recurring or (of an illness) persisting for a long time
1. continuing: without a break in continuity.
2. infrequent: not occurring often.
3. routine: a sequence of actions regularly followed.

YourMockTest.com — Free Study Material

4. regular: recurring at uniform intervals.

Clearly, 'chronic' and 'infrequent' are words with opposite meanings.(antonyms)

Thus, option 2 is the correct answer.

Q2. Answer: (c) poverty

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

Explanation-

• The given sentence talks about the inefficacy of language and in the latter part of the given sentence, the word 'dearth' has been used, which shows that in the blank a word will be used that has the meaning similar to 'dearth'.

• Poverty means lacking money for something. It also means 'the state of being inferior in quality or insufficient in amount'. Hence, it is similar to 'dearth'.

• Hence, the most appropriate word to use in the blank is 'poverty'.

Let's look at the meaning of other given options-

• Complexity: the state or quality of being or complicated.

• Intricacy: the quality of being intricate.

• Difficult: needing much effort or skill to accomplish, deal with, or understand

Q3. Answer: (d) No improvement

The correct answer is option 4) i.e. No improvement.

• The given sentence is a routine action and the tense used for routine action is the present indefinite tense.

• The subject in the sentence is singular i.e. bus, hence the verb used also be singular, so, the usage of the verb 'stops' is correct.

• Hence, the given sentence is grammatically correct and needs no improvement.

Q4. Answer: (c) If I do not pay

The correct answer is option 3) i.e. If I do not pay.

• The given sentence is a conditional sentence, hence, the first action should be in the present indefinite tense and the second sentence will be in the future indefinite tense.

• And in the present indefinite tense, if the subject is 'I' the helping verb i.e. do does not take 's/es' with it.

• So, 'do not' will be used in place of 'does not'.

Q5. Answer: (b) it

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

• In the given blank we need a pronoun to be used in place of 'the given sentence'.

• And the sentence is a non-living thing and singular.

• Hence, 'it' will be used as a pronoun in the given blank.

Q6. Answer: (c) have

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

• The given sentence is in present tense, so, option 1) i.e. 'had' cannot be used here.

• And the subject is plural in the given sentence i.e. 'we', hence, the verb will also be plural i.e. have.

• Because 'has' is used for singular subjects and 'have' is used for plural subjects.

Q7. Answer: (d) doesn't

The correct answer is option 4) i.e. doesn't.

• The given sentence implies that the subject does not have any pencils, hence, 'not' will be used with the helping verb.

• And the subject is singular i.e. he, in the given sentence, hence, the helping verb will also be singular i.e. does.

• So, the correct word to fill in the given blank is 'doesn't'.

Q8. Answer: (d) Do

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

• The given sentence is in present indefinite tense, hence, the helping verb that can be used here is 'do/does'.

• The subject in the given sentence is 'you' and it takes 'do' as a helping verb with it.

• So, the correct word to use in the blank is 'do'

YourMockTest.com — Free Study Material

Q9. Answer: (b) What

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

• The given sentence is an interrogative sentence.

• And 'what' is used to ask a direct question. Hence, it is the most appropriate word to use in the given blank.

Q10. Answer: (c) be unsuccessful

The correct answer is 'be unsuccessful'.

• Draw a blank: elicit no successful response, fail.

• E.g.- Detectives investigating the case have drawn a blank so far.

Q11. Answer: (a) turbulence

The solution is in Hindi. Read it online.

Q12. Answer: (a) comencement

The correct answer is option 1) comencement.

• The correct spelling is commencement which means the beginning of something.

• Resentment: bitter indignation at having been treated unfairly.

• Triangulation: formation of or division into triangles.

• Continuation: the action of carrying something on over time or the state of being carried on.

Q13. Answer: (a) CABD

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

• From the given sentences 'C' is the only sentence in which a proper noun i.e. Krishna has been used.

• And all the sentences talk about him, hence, 'C' is the independent sentence and it will be the first sentence.

• Sentence 'A' will follow the sentence 'C', because the sentence 'A' talks about going out of Krishna and sentence 'C' talks about confining of Krishna, hence, these two sentences are interconnected and they will be used together.

• Sentence 'B' will follow the sentence 'A' because in the sentence 'A' the word 'school' has been used and in the sentence 'B' 'teachers and students' has been used, so, 'B' will follow 'A'.

• Hence, the correct sequence is CABD.

Q14. Answer: (c) The childrens

The correct answer is option 3) i.e. the childrens.

• The use of 'childrens' is wrong.

• The plural form of 'child' is 'children'.

• Hence, 'the children' will be used in the given sentence.

Q15. Answer: (b) calligrapher

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

Let's look at the meaning of the given options-

• cartoonist- an artist who draws cartoons.

• calligrapher- a person who is skilled at art producing beautiful writing.

• painter- an artist who paints pictures.

• artist- a person who creates paintings or drawings as a profession or hobby.

Hence from the above-given meanings, we find that the correct answer is option 2 i.e. calligrapher.

Q16. Answer: (a) Mobile phones will not be allowed in the examination hall.

The correct answer is option 1.

Future indefinite tense Active form- subject + will/shall + v1 + object + other words.

Future indefinite tense Passive form- object + will/shall + be + v3 + by + subject + other words.

Option 1 follows this rule so, the chosen option is correct.

Q17. Answer: (b) The doctor told his patient to continue the same course of medicines for the following week.

The correct answer is option 2.

When reported speech starts with main verb(imperative sentence) we convert this sentence in To +V1 form for making indirect speech.

YourMockTest.com — Free Study Material

Only In option 2 sentence is in construction of TO + v1 (to continue).

So, the chosen option is correct.

Q18. Answer: (a) physical

The correct answer is option 1 i.e. physical.

Explanation:

MENTAL- relating to the mind.

• physical- relating to the body as opposed to the mind.

• brainy- having or showing intelligence.

• ability- possession of the means or skill to do something.

• strength- the quality or state of being physically strong.

The chosen word shows the opposite meaning of the given word.

Q19. Answer: (c) demography

The correct answer is option 3 i.e. demography

Let's look at the meaning of the given options-

• anthropology- the study of human societies and cultures and their development.

• sociology- the study of the development, structure, and functioning of human society.

• demography- the study of statistics such as births, deaths, income, or the incidence of disease, which illustrate the changing structure of human populations.

• psychology- the scientific study of the human mind and its functions, especially those affecting behaviour in a given context.

Hence from the above-given meanings, we find that the correct answer is option 3 i.e. demography

Q20. Answer: (d) momentary

The solution is in Hindi. Read it online.

Q21. Answer: (b) peculiar

Explanation:

ANOMALOUS- deviating from what is standard, normal, or expected.

1. indirect- not directly caused by or resulting from something.

2. peculiar- different to what is normal or expected; strange.

3. common- occurring, found, or done often; prevalent.

4. unhealthy- harmful to health.

Clearly, 'peculiar' and 'anomalous' are words with similar meanings.

Thus, the correct answer is option 2.

Q22. Answer: (a) too delayed to be of any use

The correct answer is 'too delayed to be of any use'.

Key Points

• Late in the day: at a late stage in proceedings, especially too late to be useful.

• E.g.- It's too late in the day to start studying - your final exams are next week.

Hence, the correct answer is: 'too delayed to be of any use'.

Q23. Answer: (d) has differences

The correct answer is option 4.

singular subject- singular verb

plural subject - plural verb

as subject (two states) is plural we need to use plural verb (have).

The correct sentence will be-

The two states frequently have differences over the use of the river water, especially during the summer months.

Q24. Answer: (b) CADB

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

As after reading one or two lines it can be said that this para jumble is talking about the evolution of man.

So, we must start this with the early life of a human on the earth.

Sentence C conveys this idea so, this should be the first sentence.

we have C at first position in options 2 and 4.

B & D are the sentences talking about today's man and sentence A is introducing the man today. So sentence A will follow sentence C.

Sentence B starts with others so it can not just after A as the use 'others' won't convey a clear meaning.

So we have only one choice now that Sentence D will follow sentence A and then B will come.

Thus, the correct order is CABD.

Q25. Answer: (b) negotiation

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

control- the power to influence or direct people's behaviour or the course of events.

negotiation- discussion aimed at reaching an agreement.

competition- the activity or condition of striving to gain or win something by defeating or establishing superiority over others.

strength- the quality or state of being physically strong.

As we have COMPROMISE after the blank we need to use option according to it.

Only option 2 shows meaning according to the next given word so this will be the right choice.

Q26. Answer: (a) DPPRQLX

The pattern followed here is:

Similarly,

Hence, “DPPRQLX” is the correct answer.

Q27. Answer: (c) 126

The pattern followed here is:

Hence, “126” is the correct answer.

Q28. Answer: (b) SUV

The pattern followed here is:

1) HJL → H + 2 = J, J + 2 = L

2) SUV → S + 2 = U, U + 2 = W ≠ V

3) BDF → B + 2 = D, D + 2 = F

4) NPR → N + 2 = P, P + 2 = R

Hence, “SUV” is the correct answer.

Q29. Answer: (a) 19 : 95

The pattern followed here is:

Given: 13 : 65 → 13 × 5 = 65

1) 19 : 5 → 19 × 5 = 95

2) 21 : 85 → 21 × 5 = 105 ≠ 85

3) 17 : 42 → 17 × 5 = 85 ≠ 42

4) 12 : 45 → 12 × 5 = 60 ≠ 45

Hence, “19 : 95” is the correct answer.

Q30. Answer: (b) 3, 1, 4, 2, 5

Following are the stages of life of a human being in a logical order:

3) Infancy

1) Childhood

4) Adolescence

2) Adulthood

5) Senility

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

Q31. Answer: (b) 10

When a triangle is divided in different bases, then count the number of triangles and add them all.

In triangle ABD, we have two bases = BC and CD => 3 triangles

In triangle BGD, we have two bases = GI and ID => 3 triangles
In triangle EGH, we have two bases = GF and FE => 3 triangles
The last triangle remaining is GED.
Thus, total triangles = 3 + 3 + 3 + 1 = 10
Hence, “10” is the correct answer.

Q32. Answer: (a) Amphibians

The pattern followed here is:
Lizard is an example of Reptiles.
Similarly,
Toad is an example of Amphibians.
Hence, “Amphibians” is the correct answer.

Q33. Answer: (d) Wolf

Except wolf, all others are domestic animals.
Wolf is a wild animal.
Hence, “wolf” is the correct answer.

Q34. Answer: (d) (5, 4, 41)

The pattern followed here is:
Given: (7, 4, 65) → $7^2 + 4^2 = 49 + 16 = 65 = 65$
1) (11, 8, 105) → $11^2 + 8^2 = 121 + 64 = 185 \neq 105$
2) (6, 4, 70) → $6^2 + 4^2 = 36 + 16 = 52 \neq 70$
3) (9, 6, 80) → $9^2 + 6^2 = 81 + 36 = 117 \neq 80$
4) (5, 4, 41) → $5^2 + 4^2 = 25 + 16 = 41 = 41$
Hence, “(5, 4, 41)” is the correct answer.

Q35. Answer: (a) Fruit

Ginger : Stem → Ginger is a stem.
Chilli : ?
By going through the options:
1) Fruit → Chilli will be considered as fruit.
2) Flower → Chilli is not a flower.
3) Root → Chilli never grows in soil.
4) Stem → Chilli is not a stem.
After, removing the last three options, we are left with only “Fruit”. So, Chilli is considered as a fruit.
Hence, “fruit” is the correct answer.

Q36. Answer: (a) 405

The pattern followed here is:
RUBY → 18 + 21 + 2 + 25 = 66 and 66 × 4 = 264 where 4 is the no. of letters in the word RUBY.
PAY → 16 + 1 + 25 = 42 and 42 × 3 = 126 where 3 is the no. of letters in the word PAY.
Similarly,
RUPAY → 18 + 21 + 16 + 1 + 25 = 81 and 81 × 5 = 405 where 5 is the no. of letters in the word RUPAY.
Hence, 405 is the correct answer.

Q37. Answer: (a) [figure]

Adjacent elements of $ = O, #, &, ©
Adjacent elements can never be on the opposite surface of a particular element.
The only element left is £.
So, £ will be opposite to the face having $.
Hence, “£” is the correct answer.

YourMockTest.com — Free Study Material

Q38. Answer: (d) [figure]

All brothers are Males, but all brothers and males need not be doctors.

The best possible Venn diagram is as follows:

Hence, “option 4” is the correct answer.

Q39. Answer: (d) Awful : Horrible

The pattern is as follows:

Important : Essential → Essential and Important are synonyms.

1) Never : Always → Never and Always are antonyms.

2) Up : Down → Up and Down are antonyms.

3) Pick : Drop → Pick and Drop are antonyms.

4) Awful : Horrible → Awful and Horrible are synonyms.

Hence, “Awful : Horrible” is the correct answer.

Q40. Answer: (b) × and -, 18 and 25

Given equation: 18 + 25 - 10 × 10 ÷ 5 = 203

1) + and -, 18 and 25

25 - 18 + 10 × 10 ÷ 5

= 25 - 18 + 10 × 2

= 25 - 18 + 20

= 45 - 18

= 27 ≠ 203

2) × and -, 18 and 25

25 + 18 × 10 - 10 ÷ 5

= 25 + 180 - 2

= 205 - 2

= 203

3) + and ÷, 18 and 5

5 ÷ 25 - 10 × 10 + 18

= 0.2 - 100 + 18

= 18.2 - 100

= -81.8 ≠ 203

4) × and ÷, 25 and 5

18 + 5 - 10 ÷ 10 × 25

= 23 - 1 × 25

= 23 - 25

= -2 ≠ 203

Hence, “× and -, 18 and 25” is the correct answer.

Q41. Answer: (d) [figure]

When unfolded, the paper will look like the below figure:

Hence, “option 4” is the correct answer.

Q42. Answer: (a) [figure]

The mirror image of the question figure is as follows:

Hence, “option 1” is the correct answer.

Q43. Answer: (a) (13, 5, 78)

Given: (16, 4, 80) → 16 × 4 + 16 = 64 + 16 = 80

Similarly,

(13, 5, 78) → 13 × 5 + 13 = 65 + 13 = 78

Hence, “(13, 5, 78)’ is the correct answer.

YourMockTest.com — Free Study Material

Q44. Answer: (b) Brother

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

Here, the gender of Ramesh was not defined, but in this case, we have only three choices i.e. can't be determined, brother, sister.

According to options, Ramesh will be the brother of Prabhat.

Hence, "brother" is the correct answer.

Q45. Answer: (a) 87

71, 73 and 59 are prime numbers.

But 87 = 29 × 3. Therefore, 87 is a composite number.

Hence, "87" is the correct answer.

Q46. Answer: (b) All conclusions I, II and III follow.

The least possible Venn diagram is as follows:

Explanation:

I. All eggs are crows → True (All eggs are hens, which are birds, which in turn are crows. So, all eggs are crows is true).

II. All hens are crows → True (All hens are birds, which are crows. So, all hens are crows is true).

III. Some crows are birds → True (All birds are crows. So, some part of crows will be birds)

Hence, "All conclusions I, II and III follow" is the correct answer.

Q47. Answer: (d) [figure]

In the given series, the figure is rotating in an anticlockwise direction.

The no. of dots reduces by 1 at each step.

Hence, "option 4" is the correct answer.

Q48. Answer: (d) Sunday

Till 2000, odd days = 0 (2000 is a century leap year)

Odd days in 20 years (from 2001 to 2020) = (No. of leap years × 2 + no. of non-leap years × 1) mod 7 = (5 × 2 + 15 × 1) mod 7 = remainder of (25 ÷ 7) = 4

2021 is a non-leap year

Odd days in 2021 → (odd days in jan + odd days in feb + odd days in march + odd days in april + odd days in may + odd days in june + odd days in july + odd days till 15 august) mod 7

Odd days = 3 + 0 + 3 + 2 + 3 + 2 + 3 + 1 = 17 odd days = 17 ÷ 7 = 3 days

Total odd days = 4 odd days + 3 odd days = 7 odd days

Total odd days = 7 ÷ 7 = 0 (remainder) → 0 odd days

Codes for the days:

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

We've got 0 odd days.

Thus, 15 August 2021 fell on a Sunday.

Hence, "Sunday" is the correct answer.

Q49. Answer: (b) [figure]

The question figure is embedded in the below figure:

Hence, "option 2" is the correct answer.

Q50. Answer: (d) SR

The pattern followed here is:

Hence, "SR" is the correct answer.

Q51. Answer: (c) 0

Calculation:

=> 21/3 of (3/5 ÷ 2/9) - (42/5 + 19/20 ÷ 1/2)

=>7/3 of (3/5 × 9/2) - (22/5 + 19/20 × 2/1)

=> 7/3 × 27/10 - (22/5 + 19/10)

YourMockTest.com — Free Study Material

=> 63/10 - ((44 + 19))/10

=> 63/10 - 63/10

=> 0

Therefore The correct answer is 0.

Q52. Answer: (c) More by 1000 kg

Calculation:

The total sale from B of all the months = 9000 + 7000 + 9000 + 11000 = 36000

The average sale from B of all the months = 36000/4 = 9000

The total sale from C of all the months = 10000 + 5000 + 8000 + 9000 = 32000

The average sale from C of all the months = 32000/4 = 8000 kg

Difference of the average sale from B and C = 9000 – 8000 = 1000 kg

Therefore The average sale per month from B is 1000 kg more than that from C

Q53. Answer: (b) 7333.33 kg

Calculation:

The average sale by A during Jan – Mar,2018 = (8000 + 6000 + 8000)/3 = 7333.33 kg

Therefore The correct answer is 7333.33 kg

Q54. Answer: (c) Jan, Mar, Apr, Feb

Calculation:

Ratio of sales from B to that from A and C in Jan = 9/(8 + 10) = 9/18 = 0.5

Ratio of sales from B to that from A and C in Feb = 7/(6 + 5) = 7/11 = 0.63

Ratio of sales from B to that from A and C in Mar = 9/(8 + 8) = 9/16 = 0.56

Ratio of sales from B to that from A and C in Apr = 11/(9 + 9) = 11/18 = 0.61

Therefore Arranging them in ascending order: Jan, Mar, Apr, Feb

Q55. Answer: (c) 10 : 21

Calculation:

The rate of growth in sales from B in March 2018 with reference to its previous month = (9 – 7)/7 = 2/7

The rate of growth in sales from C in March 2018 with reference to its previous month = (8 – 5)/5 = 3/5

The ratio of rate of growth in sales from B to the rate of growth in sales from C in Mar 2018 with reference to its previous month = 2/7 : 3/5 = 10 : 21

Therefore The correct answer is 10 : 21.

Q56. Answer: (b) (d)

Calculation:

In an equilateral triangle, the circumcentre, incentre, orthocentre and the centroid of a triangle are one and the same point.

The correct option is option 2.

Q57. Answer: (d) Loss 7.91%

Given:

Two items are sold for Rs. 18,602 each

Calculation:

The cost price of the item sold at 31% gain = 18602 × 100/(100 + 31) = Rs. 14200

The cost price of the item sold at 29% loss = 18602 × 100/(100 – 29) = Rs. 26200

=> The total cost price of both the items = 14200 + 26200 = Rs. 40400

The total selling price of both the items = 18602 + 18602 = Rs. 37204

Loss = Total cost price – Total selling price

=> 40400 – 37204

=> Rs. 3196

Loss percent = (3196/40400) × 100 = 7.91%

Therefore The correct answer is 7.91%.

YourMockTest.com — Free Study Material

Q58. Answer: (d) 60°

Calculation:

$3 \times (\text{cosec}^2\theta + \cot^2\theta) = 5$

$\Rightarrow 3(1 + \cot^2\theta + \cot^2\theta) = 5$ (Because $\text{cosec}^2\theta - \cot^2\theta = 1$)

$\Rightarrow 3(1 + 2\cot^2\theta) = 5$

$\Rightarrow 3 + 6\cot^2\theta = 5$

$\Rightarrow 6\cot^2\theta = 2$

$\Rightarrow \cot^2\theta = 2/6$

$\Rightarrow \cot^2\theta = 1/3$

$\Rightarrow \cot\theta = 1/\sqrt{3}$

$\Rightarrow \theta = 60°$

Therefore The correct answer is $\theta = 60°$

Q59. Answer: (d) √3(√3 + 1) : 2

Shortcut Trick

Since PQ || AC, triangle PBQ is similar to triangle ABC.

The ratio of areas of similar triangles is equal to the square of the ratio of their corresponding sides.

Area(ABC) : Area(PBQ) = 3 : 1 => $BC^2 : BQ^2 = 3 : 1$ => BC : BQ = √3 : 1.

We need CB : CQ = CB : (CB − BQ) = √3 : (√3 − 1).

Multiply by conjugate (√3 + 1): √3(√3 + 1) : (√3 − 1)(√3 + 1) = √3(√3 + 1) : (3 − 1).

Therefore The correct answer is √3(√3 + 1) : 2.

Alternate Method

Given:

Area of ΔABC : Area of ΔPBQ = 3 : 1

Calculation:

Area of ΔABC / Area of ΔPBQ = 3/1

=> CB/BQ = √3/√1 = √3/1

Let CB = √3x and BQ = x

=> CQ = CB − BQ

=> CQ = √3x − x = (√3 − 1)x

=> CB/CQ = √3x / (√3 − 1)x

=> CB/CQ = √3 / (√3 − 1)

=> CB/CQ = [√3(√3 + 1)] / [(3 − 1)]

=> CB/CQ = √3(√3 + 1) / 2

Therefore CB : CQ = √3(√3 + 1) : 2

Therefore The correct answer is √3(√3 + 1) : 2.

Additional Information

Similar Triangles Property

If two triangles are similar, the ratio of their areas is equal to the square of the ratio of any two corresponding sides, altitudes, or medians.

Basic Proportionality Theorem (Thales' Theorem)

If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.

Conjugate Multiplication

To simplify an irrational denominator like (a − √b), multiply both numerator and denominator by its conjugate (a + √b) to apply $(x - y)(x + y) = x^2 - y^2$.

Q60. Answer: (a) 1

Calculation:

$\Rightarrow 1/4\{(a + 1/a)^2 - (a - 1/a)^2\}$~

$\Rightarrow 1/4\{a^2 + 1/(a^2) + 2 - (a^2 + 1/(a^2) - 2)\}$

$\Rightarrow 1/4(a^2 + 1/(a^2) + 2 - a^2 - 1/(a^2) + 2)$

$\Rightarrow 4/4$

=> 1

Therefore The correct answer is 1.

Q61. Answer: (b) 244

Calculation:

Let the number be x.

The reciprocal of the number = 1/x

According to the question:

$(x + 1/x)/2 = 4$

$\Rightarrow x + 1/x = 8$

$\Rightarrow (x + 1/x)^3 = 512$

$\Rightarrow x^3 + 1/x^3 + 3(x \times 1/x)(x + 1/x) = 512$

$\Rightarrow x^3 + 1/x^3 + 3(8) = 512$

$\Rightarrow x^3 + 1/x^3 = 512 – 24$

$\Rightarrow x^3 + 1/x^3 = 488$

$\Rightarrow (x^3 + 1/x^3)/2 = 244$

Therefore The average of cube of a number and its reciprocal is 244

Alternate MethodConcept used:

$x + 1/x = P$

$x3 + 1/x3 = P^3 - 3P$

Calculation:

Let the number be x.

The reciprocal of the number = 1/x

$\Rightarrow (x + 1/x)/2 = 4$

$\Rightarrow x + 1/x = 8$

$\Rightarrow x3 + 1/x3 = (8)^3 - 3 \times 8$

$\Rightarrow x3 + 1/x3 = 512 - 24 = 488$

The average of its cube and its reciprocal = 488/2 = 244

Therefore The correct answer is 244.

Q62. Answer: (a) tanθ

Calculation:

In the first quadrant, i.e. $0° < \theta < 90°$, sinθ, tanθ and secθ are increasing functions and cosθ, cotθ and cosecθ are decreasing functions.

Therefore The correct answer is tanθ.

Q63. Answer: (c) 11/27

Given:

a : b : c = 1 : 3 : 5

Calculation:

Let a = x, b = 3x and c = 5x

$\Rightarrow (4a - b + 2c)/(3(a + b + c))$

$\Rightarrow (4x - 3x + 2(5x))/(3(x + 3x + 5x))$

$\Rightarrow (4x - 3x + 10x)/(3(9x))$

$\Rightarrow 11x/27x$

$\Rightarrow 11/27$

Therefore The correct answer is 11/27.

Q64. Answer: (b) 11

Given:

The seven-digit number 78x1y68 is divisible by 88.

Concept used:

(i) For a number to be divisible by 88, it should be divisible by 8 and 11.

YourMockTest.com — Free Study Material

(ii) Divisibility Rule of 11: For a number to be divisible by 11, the difference between the sum of digits at even places to the sum of digits at odd places should be zero or multiple of 11

Calculations:

Checking divisibility by 11,

=> The difference of (7 + x + y + 8) and (8 + 1 + 6) should be zero or multiple of 11.

(7 + x + y + 8) - (8 + 1 + 6) = 11

=> 15 + x + y – 15 = 11

=> x + y = 11

Therefore The value of (x + y) is 11.

Hint

The question could be solved by first finding the possible values of y by first checking the divisibility by 8, but the process becomes more time-consuming.

Q65. Answer: (c) 1

Given:

$(3x + 1)^3 + (x - 3)^3 + (2x - 4)^3 = 3 (3x + 1) (x - 3) (2x - 4)$

Calculation:

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

So,

=> (3x + 1) + (x – 3) + (2x – 4) = 0

=> 6x – 6 = 0

=> 6x = 6

=> x = 1

Therefore The correct answer is 1.

Q66. Answer: (b) 1.0525

Calculation:

=> (1.0025 + 6.25 × 10^(- 6))/(0.0025 + 0.95)

=> (1.0025 + 0.00000625)/(0.0025 + 0.95)

=> 1.00250625/0.9525

=> 1.0525

Therefore The correct answer is 1.0525.

Q67. Answer: (c) 50%

Given:

Amount for 3 years = 8000

Amount for 6 years = 27000

Formula used:

$A = P(1 + r/100)^n$

Where, A = Amount

P = Principal, r = Rate of interest, n = Time period

Calculation:

When the sum amounts to Rs.8000 in 3 years:

$8000 = P(1 + r/100)^3$ ----(1)

When the sum amounts to Rs.27000 in 6 years:

27000 = P(1 + r/100)^6 ----(2)

Dividing equation (2) by equation (1)

$27/8 = (1 + r/100)^3$

Taking cube root on both the sides

1 + r/100 = 3/2

=> r/100 = 3/2 – 1

=> r/100 = 1/2

=> r = 50%

Therefore Rate of interest is 50%

Q68. Answer: (b) 3/50

Calculation:

Difference in time = 15 + 10 = 25 min = 1500 second

Distance = 25 km = 25000 m

Let the speed of bus be B m/s and the speed of car be C m/s

=> 25000/B – 25000/C = 1500

=> 25000(1/B – 1/C) = 1500

=> 1/B – 1/C = 1500/25000 = 3/50

Therefore The difference of the reciprocals of average speeds of the bus and the car is 3/50 seconds per metre.

Q69. Answer: (d) 5

Calculation:

Let the observer stand at point A on the circle.

The angle subtended by an arc at any point on the major segment is half of the angle subtended by the arc at the centre of the circle.

=> angle BAC = ½ angle BOC = 10°/2 = 5°

Therefore The measure of angle described by the athlete by an observer standing on the circle is 5°

Q70. Answer: (a) 816/43

Given:

A, B and C can respectively complete a piece of work in 20, 24 and 36 days respectively.

Calculation:

A can complete a piece of work in 20 days

=> One day work of A = 1/20

B can complete a piece of work in 24 days

=> One day work of B = 1/24

C can complete a piece of work in 36 days

=> One day work of C = 1/36

When A, B and C work together, their one day work = 1/20 + 1/24 + 1/36

= (18 + 15 + 10)/360

= 43/360

Hence, A, B and C working together will complete the work in 360/43 = 816/43 days.

Therefore The correct answer is 816/43 days.

Shortcut TrickCalculation:

Efficiency	Person	Time	Total Work
18	A	20	360
15	B	24	
10	C	36	

Required nuber of days = 360/(18 + 15 + 10) = 360/43 = 816/43

Therefore The correct answer is 816/43 days.

Q71. Answer: (a) 3 : 1

Given:

Two chords AB and CD of a circle intersect at a point O inside the circle.

AO = 1 cm; AB = 13 cm; CD = 8 cm

Calculation:

Let CO = x

=> OD = 8 – x

We have, AO × OB = CO × OD

=> 1 × 12 = x × (8 – x)

=> 12 = 8x – x²
=> x² – 8x + 12 = 0
=> x(x – 6) - 2(x – 6)
=> (x – 6)(x – 2)
=> x = 6 or x = 2
When x = 6,
CO = 6 and OD = 8 – 6 = 2
When x = 2
CO = 2 and OD = 8 – 2 = 6
=> The larger section = 6 and the smaller section = 2
The ratio of larger and smaller section = 6 : 2 = 3 : 1
Therefore The correct answer is 3 : 1

Q72. Answer: (a) 70

Calculation:
Marks scored by the student in theory = 40 × 80/100 = 32
Marks scored by the student in practical = 30 × 70/100 = 21
Marks scored by the student in project = 20 × 60/100 = 12
Marks scored by the student in viva = 10 × 50/100 = 5
Total marks scored by the student = 32 + 21 + 12 + 5 = 70
The aggregate percentage = 70/100 × 100 = 70%
Therefore The correct answer is 70%

Q73. Answer: (a) 24

Given:
First diagonal (d1) = 4 cm; second diagonal (d2) = 12 cm
Formula used:
Area of rhombus = ½ × (diagonal1) × (diagonal2)
Calculation:
Area of rhombus = (1/2) × diagonal1 × diagonal2
=> (1/2) × 4 × 12
=> 24 cm²
Therefore The correct answer is 24 cm2.

Q74. Answer: (d) Rs. 850

Given:
S.P = Rs. 688.16
Calculation:
Let the mark price be Rs.x.
=> x × (100 – 12)/100 × (100 – 8)/100 = 688.16
=> x × 88/100 × 92/100 = 688.16
=> x = 688.16 × 100/88 × 100/92
=> x = Rs. 850
Therefore The correct answer is Rs. 850.

Q75. Answer: (d) 5/12

Given:
5 sinθ + 12 cosθ = 13
Calculation:
=> sin2θ + cos2θ = 1 ----(1)
=> 5/13 sinθ + 12/13 cosθ = 1 ---(2)
Comparing it with equation (2)
sin θ = 5/13 and cos θ = 12/13

=> tanθ = sinθ/cosθ = (5/13)/(12/13) = 5/12

Therefore The correct answer is 5/12.

Q76. Answer: (b) Provident Fund

The correct answer is option 2) i.e. Provident Fund.

• Provident Fund is an amount of money consisting of regular payments by an employee and an employer over a period of time that the employee receives when they leave a company or retire.

• Employees' Provident Fund Organisation (EPFO) is the organisation which regulates the provident fund of all the workers employed in the Organised sector in India.

• A mutual fund is a company that pools money from many investors and invests the money in securities such as stocks, bonds, and short-term debt.

• A balanced fund is a mutual fund that contains a stock component, a bond component and sometimes a money market component in a single portfolio.

• An Index Fund today is a source of investment for investors looking at the long term, less risky form of investment.

Q77. Answer: (a) Jammu and Kashmir

The correct answer is option 1) i.e. Jammu and Kashmir.

• The "Burzahom" Neolithic site is located in the Kashmir Valley of the Indian Union territory of Jammu and Kashmir, in the district of Srinagar.

• The site of Burzahom is a unique comprehensive storyteller of life between 3000 BCE to 1000 BCE.

• The Burzahom site revealed the transition from the subterranean and ground-level housing features of the Neolithic people to the mudbrick structures of the Megalithic people. The site was Excavated in 1939.

Q78. Answer: (b) Param Yuva 2

The correct answer is option 2) i.e. Param Yuva 2.

• Param Yuva 2 is a supercomputer developed by India.

• Supercomputer Param Yuva-2 was rated first in India, 9th in the Asia Pacific Region and 44th in the world among the most Power-efficient computer system as per the Green 500 list.

• It was developed by the Centre for Development of Advanced Computing (C-DAC).

• It uses hybrid technology, processor, co-processor and hardware accelerators.

https://www.cdac.in/index.aspx?id=hpc_nsf_param_yuva_ii

Q79. Answer: (d) Krishna

The correct answer is Krishna.

• The Krishna River is a peninsular river which rises from a spring near Mahabaleshwar and flows for about 1400 km and reaches the Bay of Bengal.

• The Tungabhadra, the Koyana, the Ghatprabha, the Musi and the Bhima are some of its tributaries.

• Its drainage basin is shared by Maharashtra, Karnataka and Andhra Pradesh.

• Some of the other major peninsular rivers which flow eastwards and drain into the Bay of Bengal are the Mahanadi, the Godavari, the Krishna and the Kaveri.

Please go through the given link for more Information on Krishna river. :
http://www.cpreecenvis.nic.in/Database/River_Krishna_924.aspx

Q80. Answer: (c) Lord Canning

First Governor-General of Bengal	**Warren Hastings (1773-1785)**
First Governor-General of India	Lord William Bentinck (1828-1835)
First Viceroy of India	Lord Canning (1856-62)

ord canning	**• Lord canning was the governor-general of India during sepoy mutiny (1857) - He was the first viceroy of India. - He abolished the doctrine of lapse and so the Indian princes were allowed to adopt a successor in order to carry forward their rule.**

Lord William Bentinck	• Lord William Bentinck was governor-general of India from 1828 to 1835. - His major reforms were the abolition of sati by the Bengal Sati regulation act 1829. - He made English as the medium of instruction through English education act 1835, by replacing the Persian language.
Lord Wellesley	• He was governor-general of Bengal from 1798 to 1805. - As he was governor-general of the presidency of Fort William (Bengal) he called himself “Bengal Tiger”. - He was famous for the introduction of the subsidiary alliance in India.

Q81. Answer: (c) Mahanadi

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

River	Dam	State
Tungabhadra	Pampa Sagar Dam	Karnataka
Koyna	Koyna Dam	Maharastra
Mahanadi	Hirakud Dam	Odisha
Damodar	Panchet Dam	Jharkhand

Note: For more information on the Hirakud dam, please visit the link given: https://sambalpur.nic.in/tourist-place/name-of-tourist-place-to-visit/

Q82. Answer: (a) Engineers India Limited

The correct answer is option 1) i.e. Engineers India Limited.

• Engineers India Limited was incorporated pursuant to a formation agreement dated November 20, 1964, between the Government of India and BIC.

• In 1965 it commenced work in the refineries segment. and in 1967 became a wholly-owned Government of India (GoI) company.

• In 1997 it was accorded the Mini Ratna status and also listed on the BSE and NSE.

• In 2014 it was conferred the "Navratna" status by the Govt. of India.

• Steel Authority of India Limited & Coal India Limited are Maharatna company and Rashtriya Chemicals and Fertilizers Limited is a Miniratna company.

• There are 8 Maharatna companies and 16 Navratna companies.

Mistake Points

• Many students confuse Coal India Limited as a Navratna company, which is actually one of the 13 Maharatna companies.

Get the link of all Maharatna, Navratna, and Miniratna companies here.

Q83. Answer: (d) Dalai Lama

The correct answer is option 4) i.e. Dalai Lama.

• 'Freedom in Exile' is the autobiography of Dalai Lama.

• This book was published on August 1st 1991 by Harper San Francisco.

• The Dalai Lamas are believed by Tibetan Buddhists to be manifestations of Avalokiteshvara, the Bodhisattva of Compassion and the patron saint of Tibet.

• Bodhisattvas are realized beings, inspired by the wish to attain complete enlightenment, who have vowed to be reborn in the world to help all living beings.

Term	Meaning
Mahabhinishkraman	‘The great departure’ was the incident of relinquishing home by Lord Buddha.
Sambodhi Chaithya	Stupa situated in Sri Lanka.
Mahaparinirvana	Refers to nirvana after death.
Dharma chakra pravartan	The preaching of the first sermon by Lord Buddha

YourMockTest.com — Free Study Material

Q84. Answer: (c) Kerala

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

• Ashtamudi lake is an estuary which lies in the Kollam district.

• This is the second largest wetland in Kerala with a palm-shaped extensive water body and eight prominent arms, adjoining the Kollam town.

• All the arms converge into a single outlet at Neendakara near Kollam, to enter the Arabian sea.

• This estuary is the deepest among all the estuaries of Kerala with a maximum depth of 6.4 m at the confluence zone.

• The Kallada river which originates from the western ghats, traverses through virgin forests and finally falls into the Ashtamudi wetland, after traveling a distance of about 120 km.

• The 8 arms or channels of the Ashtamudi Lake are what gave it its name.

• It is the entrance to the famous backwaters of Kerala and the houseboat rides here are extremely famous.

Note: For more information on lakes present in Kerala, please click the link given: http://www.kerenvis.nic.in/Database/Lakes_1634.aspx

Q85. Answer: (c) Alaknanda

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

• The Alaknanda river flowing in Uttarakhand is a Himalayan river.

• It is one of the two headstreams of the river Ganga, the other being Bhagirathi river.

• The source of the Alaknanda River is the confluence of the Satopanth glacier and the Bhagirathi Garak glacier.

• The length of the river is 190 km and the area of the drainage basin is 10882 km^2.

• It is joined by the Bhagirathi at Devaprayag in Uttarakhand.

• The other major tributaries of the Ganga in Uttarakhand are Dhauli Ganga, Rishi Ganga, Bal Ganga, Bhilangana, Mandakini and Pindar.

Q86. Answer: (c) Light Detection and Ranging

The correct answer is option 3) i.e. Light Detection and Ranging.

• LIDAR stands for Light Detection and Ranging.

• It is a remote sensing method that uses light in the form of a pulsed laser from the satellites or any aerial vehicle to measure ranges (variable distances) to the Earth.

• It is used in a wide range of land assessment, management and planning efforts, including hazard assessment (including lava flows, landslides, tsunamis, and floods), forestry, agriculture, geologic mapping, and watershed and river surveys.

Note: Please go through the following link for more information on the answer: https://oceanservice.noaa.gov/facts/lidar.html

Q87. Answer: (b) Article 54

The correct answer is option 2) i.e. Article 54.

Article	Details
Article 74	Council of Ministers shall aid the President in the exercise of his functions
Article 54	The election of the President of India
Article 78	Duties of Prime Minister
Article 103	The decision on questions as to disqualifications of members

Note: Please go through the following link for more information on the answer: https://www.india.gov.in/sites/upload_files/npi/files/coi_part_full.pdf

Q88. Answer: (a) Arundhati Roy

The correct answer is option 1) i.e. Arundhati Roy.

• The End of Imagination is a compendium of essays that brings together five of Arundhati Roy's books.

• It was released in 2016. This book includes her nonfiction works Power Politics, War Talk, Public Power in the Age of Empire, and An Ordinary Person's Guide to Empire, which include her widely circulated and inspiring writings on the U.S. invasions of Afghanistan and Iraq, the need to confront corporate power, and the hollowing out of democratic institutions globally.

• Arundhati Roy's written novel "The God of Small Things" won the Man Booker Prize for Fiction in 1997.

Writer	Book names

Arundhati Roy	The End of Imagination
Shobhaa De	Snapshots
Chetan Bhagat	Girl in Room 105
Amitav Ghosh	Ibis Trilogy

Q89. Answer: (c) Patna

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

• India's First Dolphin Research Centre is Established in Patna.

• It is the first of its kind in the whole of Asia. It is being set up with the objective to save the endangered Gangetic River Dolphin.

• The Dolphin Day is celebrated by the State Government of Bihar on 5th October every year.

Note: Please go through the following link for more information on the answer:
http://cpreecenvis.nic.in/KidsCentre/IndiasfirstdolphinresearchcentretocomeupsooninPatna_5466.aspx

For Information about Animal Research Centers all over India, please refer this link:
https://icar.org.in/content/institutes_or_universities_under_animal_science_division

Q90. Answer: (a) Amazon India

The correct answer is option 1) i.e. Amazon India.

• Amazon India gets chosen as India's most 'attractive employer brand', as per the findings of Randstad Employer Brand Research 2019.

• The company scored high on financial health, utilization of the latest technologies and a strong reputation.

• Other companies like Microsoft India and Sony India, were second and third on the list, respectively.

• Further, Google India has been inducted into the Hall of Fame category last year, for winning the coveted title for three consecutive years.

Note: Please go through the following link for more information on the answer:
https://www.randstad.in/employer-brand-research/rebr-country-report-india-2019.pdf

Q91. Answer: (a) M. Ananthasayanam Ayyangar

The correct answer is option 1) i.e. M. Ananthasayanam Ayyangar.

• M. Ananthasayanam Ayyangar served as the First Deputy Speaker of the Lok Sabha.

• He was born on 4 February 1891 at Tiruchanur near the spiritual town of Tirupati in Andhra Pradesh.

• After obtaining his B.A. degree from the Pachaiyappa's College, Madras, he earned a degree in Law from the Madras Law College in 1913

• He began his career as a Mathematics teacher in 1912. In 1915 he ventured into the legal profession- Within a short period, he established himself as a professional lawyer and, with his unusual ability to memorise cases, soon earned the reputation of being a 'walking digest of case laws'.

• Through a public life spanning over six decades as a lawyer, as a social activist and freedom fighter, as an outstanding parliamentarian and Speaker and as a distinguished scholar, Ayyangar left an indelible imprint of his personality in every area he chose to tread on in life.

Note: Please go through the following link for more information on the answer: https://speakerloksabha.nic.in/frmspeaker.asp

Q92. Answer: (c) Linux

The correct answer is Linux.

Key Points

• Linux is an operating system whereas Kaspersky, Norton and Avast are anti-virus software.

• Just like Windows, iOS, and Mac OS, Linux is an operating system.

• Android, is powered by the Linux operating system.

• An operating system is software that manages all of the hardware resources.To put it simply, the operating system manages the communication between your software and your hardware

Additional Information

• Antivirus is a kind of software used to prevent, scan, detect and delete viruses from a computer. Once installed, most antivirus software runs automatically in the background to provide real-time protection against virus attacks.

• Some examples of anti-virus software are McAfee, Norton, and Kapersky.

YourMockTest.com - Free Study Material

Q93. Answer: (b) West Indies

The correct answer is option 2) i.e. West Indies.

• The 1979 Prudential Cricket World Cup was won by West Indies.

• They were the defending champions when they won the 1979 World cup.

• They defeated hosts England by 92 runs in the final to win the cricket World Cup second time in a row at the same venue where they won their maiden World Cup in 1975 beating Australia.

• Vivian Richards who made 138 runs was adjudged player of the final.

Q94. Answer: (d) Charles Wilkins

The correct answer is option 4) i.e. Charles Wilkin.

• Sir Charles Wilkins is notable as the first translator of Bhagavad Gita from Sanskrit to English.

• He was an English typographer and Orientalist, and the founding member of The Asiatic Society.

• In 1784, Wilkins helped William Jones establish the Asiatic Society of Bengal.

Q95. Answer: (a) Mallikarjuna-Andhra Pradesh

The correct answer is Mallikarjuna-Andhra Pradesh.

Key Points

• The second jyotirlinga of Shiva, named Mallikarjuna is located in Srisailam, Andhra Pradesh also termed as Kashi of the South.

• It is located at a distance of around 215 km from Hyderabad in Nallamala hill forests along the banks of Krishna river.

• The Somnath temple believed to be the first among the twelve jyotirlinga shrines of Shiva located in Gir Somnath district of Gujarat.

no	Jyotirlinga	Location
1	Somnath	Saurashtra, Gujarat
2	Mahakaleshwar	Ujjain, Madhya Pradesh
3	Omkareshwar	Khandwa, Madhya Pradesh
4	Mallikarjuna	Srisailam, Andra Pradesh
5	Vaijnath	Parli, Maharashtra
6	Kedarnath	Kedarnath, Uttarkhand
7	Nageshwar	Darukavanam, Gujarat
8	Trimbakeshwar	Nasik, Maharashtra
9	Bhimashankar	Pune, Maharashtra
10	Rameshwaram	Rameshwaram, Tamil Nadu
11	Grishneshwar	Aurangabad, Maharashtra
12	Vishwanath	Varanasi, Uttar Pradesh
13	Baidyanathdham	Deoghar district, Jharkhand

Q96. Answer: (d) Bengaluru

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

• The National Institute of Mental Health and Neuro-Sciences (NIMHANS) is situated at Bangalore.

• It is the apex centre for mental health and neuroscience education in the country.

• This institute operates autonomously under the Ministry of Health and Family Welfare.

• It was deemed a central Institute of Importance in 1994. It was established in the year 1974.

Q97. Answer: (d) Horse Racing

The correct answer is option 4) i.e. Horse Racing.

• The Kentucky Derby is the longest-running sporting event in the United States, dating back to 1875.

• The race is often referred to as "The Run for the Roses" and has continuously produced “the most exciting two minutes in sports”.

• The Kentucky Derby is a top rank race for 3-year-old Thoroughbred horses.

YourMockTest.com — Free Study Material

• The race distance is one and one-quarter miles long, and it is run on the dirt racetrack at Churchill Downs in Louisville, Kentucky.

Sports	Cups or trophies
Football	Rovers Cup, Bandodkar Trophy, Merdeka Cup, Confederation Cup, DCM Trophy, Durand Cup, B.C. Raj Trophy(National Championship), FIFA World cup, Jules Rimet Trophy, Indian Super League, Kalinga Cup, Santosh Trophy, IFA Shield, Scissor Cup, Subroto Cup, Sir Ashutosh Mukherjee Trophy, Todd Memorial Trophy, Vittal Trophy, UEFA Champions League.
Cricket	Ashes Cup, Asia Cup, C.K Naidu Trophy, Cooch Behar Trophy, Deodhar Trophy, Duleep Trophy, Gavaskar Border Trophy, G.D Birla Trophy, Gillette Cup, ICC World Cup, IPL, Irani Trophy, Jawaharlal Nehru Cup, Rani Jhansi Trophy, Ranji Trophy, Rohinton Baria Trophy, Rothmans Cup, Sahara Cup, Sharjah Cup, Singer Cup, Titan Cup, Vijay Hazare Trophy, Vijay Marchent Trophy, Wisden Trophy and Wills Trophy.
Badminton	Amrit Diwan Cup, Asia Cup, Chaddha Cup, European Cup, Harilela Cup, Ibrahim Rahimatillah, Challenger Cup, Konica Cup, Sophia Cup, Kitiakara Cup, Malaysian Open, Thomas Cup (Men) and Uber Cup(Women)
Hockey	Aga Khan Cup, Maharaja Rajit, Singh Gold Cup, Dhyanchand Trophy, Sultan Azlan Shah Cup, Wales Trophy, Stanley Cup, Sindhia Gold Cup, Wellington Cup.

Q98. Answer: (a) Faiz Hameed

The correct answer is option 1) i.e. Faiz Hameed.

• Lieutenant General Faiz Hameed was appointed as the Director-General of the Inter-Services Intelligence (DG ISI).

Slno	Country	Service
1	India	RAW (Research and Analysis Wing)
2	Israel	Mossad
3	America	CIA (Central Intelligence Agency)
4	China	MSS (Ministry of State Security)
5	United Kingdom	M1-6 (Military Intelligence Section 6 or Secret Intelligence Service (SIS))
6	Australia	ASIS (Australian Secret Intelligence Service)
7	France	DGSE (Directorate-General for External Security)
8	Germany	BND (Bundesnachrichtendienst)
9	Russia	FSB (Federal Security Service of the Russian Federation)

NOTE: Please click on the link given to know more about the solution: https://economictimes.indiatimes.com/news/defence/pakistan-lt-gen-faiz-hameed-named-new-isi-chief/articleshow/69822667.cms?from=mdr

Q99. Answer: (c) Telugu Titans

The correct answer is option 3) i.e. Telugu Titans.

• Telugu Titans is a Pro-Kabbadi team whereas the other three are cricket teams participating in the Indian Premier League.

• Bengal Warriors beat Dabang Delhi to win the season seven Pro-Kabaddi League title.

• Totally 12 teams participated in this season of Pro-Kabbadi. (Kabaddi)

• Mumbai Indians beat Chennai Super Kings to win the IPL 2019 final. (Cricket)

NOTE: Please click on the link given to know more about the solution: https://www.prokabaddi.com/ (Then go to teams)

YourMockTest.com — Free Study Material

Q100. Answer: (a) PSLV-C46

The correct answer is option 1) i.e. PSLV-C46.

• India's PSLV-C46 successfully launched RISAT-2B satellite from Satish Dhawan Space Centre (SDSC), Sriharikota, Andhra Pradesh.

• PSLV-C46 was the 72nd launch vehicle mission from SDSC SHAR, Sriharikota.

• RISAT-2B with a lift-off mass of 615 kg, is a radar imaging earth observation satellite. The satellite is intended to provide services to Agriculture, Forestry and Disaster Management domains.

Note: Please go through the following link for more information on the answer:

More previous year papers and mock tests: **www.yourmocktest.com/pyq**

YourMockTest.com — Free Study Material