SSC CHSL Tier-1 2023: Official Paper (Held On: 10 Aug, 2023 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2023 • 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-tier-1-2023-official-paper-held-on-10-aug-2023-shift-2-…

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

ENGLISH LANGUAGE

Q1. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the option in which the numbers are related in the same way as are the numbers of the following pairs.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting / multiplying etc, to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

12, 57

16, 77

(a) 11, 49
(b) 4, 14
(c) 8, 37
(d) 21, 106

Q2. If it was Friday three days ago, then what was the day of the week 150 days ago from today?

(a) Friday
(b) Wednesday
(c) Sunday
(d) Thursday

Q3. Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(a) CYF
(b) OJL
(c) LGI
(d) UPR

Q4. What will come in place of the question mark (?) in the following equation if '+' and '÷' are interchanged and '-' and '×' are interchanged?

25 × 6 - 4 ÷ 18 + 9 = ?

(a) 7
(b) 10
(c) 3
(d) 5

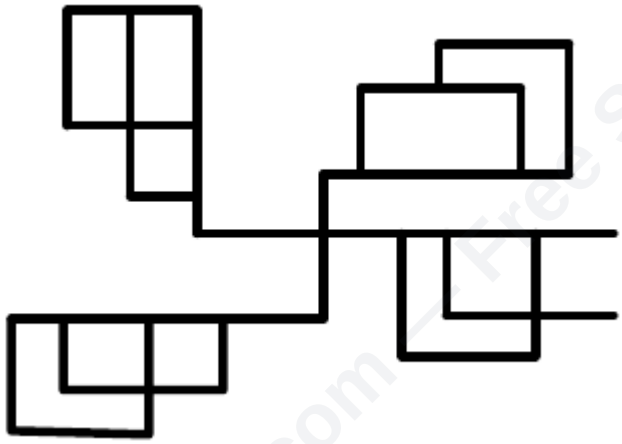
Q5. Select the term from the given options that can replace the question mark (?) in the given series to make it logically complete.

BP 74, ?, FT 64, HV 59, JX 54

(a) CS 70
(b) DR 69
(c) ET 68

(d) ES 70

Q6. Identify the number of rectangles in the given figure.



(a) 16
(b) 24
(c) 17
(d) 28

Q7. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FGO, HIR, JKU, LMX, ?

(a) NZP
(b) NOA
(c) NOP
(d) NPZ

Q8. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

37 : 152

61 : 248

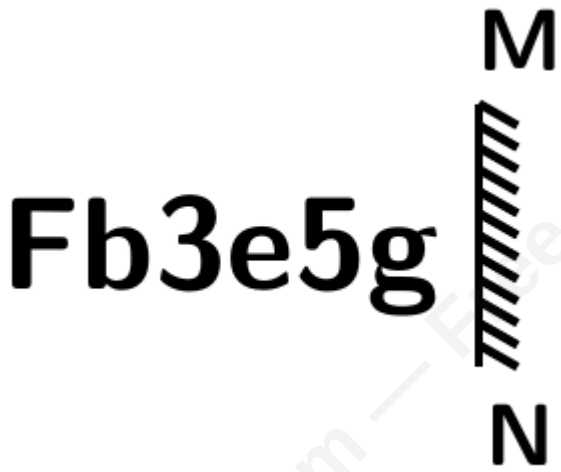
39 : 160

53 : 208

(a) 61 : 248
(b) 39 : 160
(c) 37 : 152
(d) 53 : 208

Q9. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

YourMockTest.com – Free Study Material



(a)



(b)



(c)



(d)



Q10. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below:

(The words must be considered meaningful English words and must not be related to each other based on the number of letters/consonants/vowels in the word.)

Latent : Dormant

(a) Nice : Demanding

(b) Picky : Fussy

(c) Lathe : Latex

YourMockTest.com — Free Study Material

(d) Pious : Dainty

Q11. What should come in place of XXX in the given series?

9 13 21 33 49 X

(a) 67
(b) 71
(c) 65
(d) 69

Q12. What should come in place of the question mark (?) in the given series?

417, 429, 443, ?, 469

(a) 452
(b) 460
(c) 455
(d) 447

Q13. Which of the following interchanges in two mathematical operators will balance the equation given below?

63 - 23 × 132 ÷ 12 + 7 = 117

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

Q14. In a certain code language,

E + M means 'E is the father of M',

E - M means 'E is the husband of M'',

E @ M means 'E is the daughter of M',

E $ M means 'E is the mother of M'.

If R $ A - F $ H, then how is R related to F?

(a) Mother
(b) Husband's mother
(c) Sister
(d) Father's sister

Q15. Select the option in which the letter-clusters share the same relationship as that shared by the given pair of letter-clusters.

ZPJ : FNF

SNT : YLP

(a) HIG : NFC
(b) LOS : FQW
(c) RJX : XHT
(d) AND : GQZ

Q16. Select the triad in which the numbers are related in the same way as are the numbers of the following triads.

4 - 24 - 6

2 - 6 - 3

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 -Operations on 13 such as adding/subtracting /multiplying etc, to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(a) 9 - 17 - 3
(b) 6 - 30 - 7
(c) 1 - 9 - 8
(d) 5 - 35 - 7

YourMockTest.com — Free Study Material

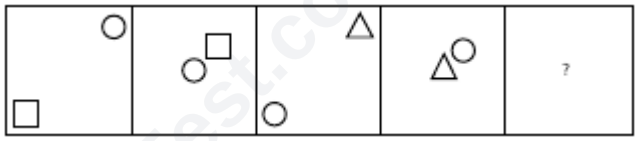
Q17. In a certain code language, 'EARNT' is coded as '25371' and 'TUNER' is coded as '57142'. What is the code for 'U' in the given code language?

(a) 2
(b) 5
(c) 4
(d) 7

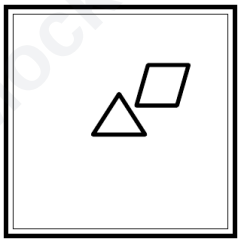
Q18. In a certain code language, 'FROM' is coded as '8167' and 'ROMP' is coded as '6218'. What is the code for 'F' in the given code language?

(a) 7
(b) 6
(c) 8
(d) 1

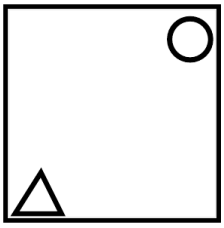
Q19. Identify the figure given in the options which when put in place of ? will logically complete the series.



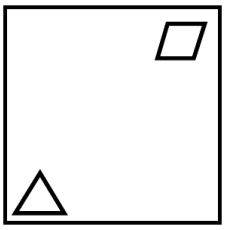
(a)



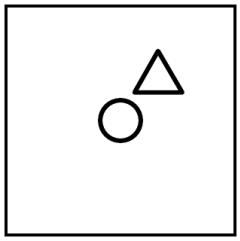
(b)



(c)



(d)



YourMockTest.com — Free Study Material

Q20. Select the number from among the given options that can replace the question mark (?) in the following series.

426, 423, 414, 387, 306, ?

(a) 62
(b) 64
(c) 65
(d) 63

Q21. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically and definitely follow/s from the given statements.

Statements : Some Hats are Caps. Some Hats are Turbans. All Caps are Monkeys.

Conclusions: (I) Some Turbans are Caps.

(II) All Hats are Monkeys.

(a) Both conclusions (I) and (II) do not follow.
(b) Only conclusion (I) follows.
(c) Only conclusion (II) follows.
(d) Both conclusions (I) and (II) follow.

Q22. Select the combination of letters which when sequentially placed in the blanks of the given series will complete the series.

JK_MJJ_LMJJKK_MJJKKLL_

(a) MMJJ
(b) LKLM
(c) LMLJ
(d) JKLJ

Q23. In a certain code language,

P + Q means P is the mother of Q,

P - Q means P is the brother of Q,

P × Q means P is the wife of Q,

P / Q means P is the father of Q.

Based on the above, how is B related to D in A × B / C - D?

(a) Brother
(b) Father's brother
(c) Father
(d) Mother

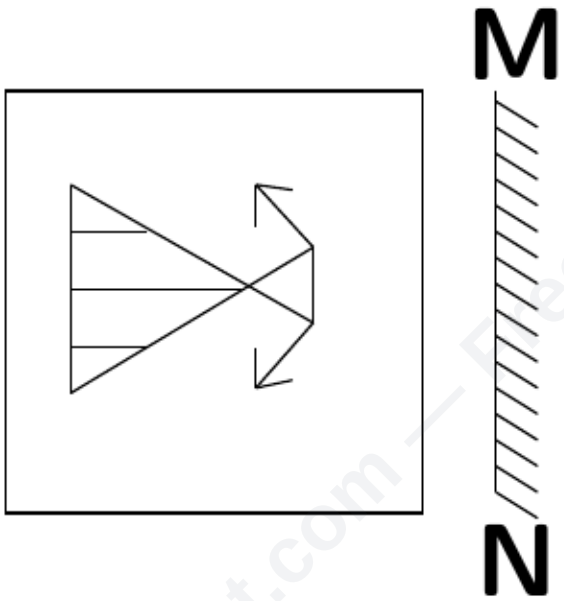
Q24. What should come in place of ? in the given series based on the English alphabetical order?

QED TKM WQV ZWE ?

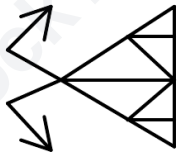
(a) BDO
(b) DDN
(c) CCN
(d) DCM

Q25. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

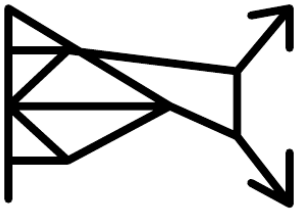
YourMockTest.com — Free Study Material



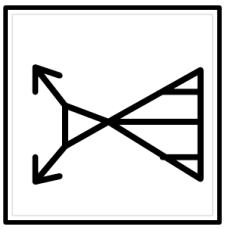
(a)



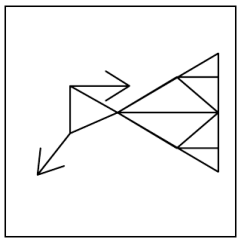
(b)



(c)



(d)



GENERAL INTELLIGENCE

YourMockTest.com — Free Study Material

Q26. In India the principle of 'procedure established by law' is taken from which constitution?

(a) Canada
(b) Irish
(c) Japan
(d) South Africa

Q27. Supply of Money is the quantity of money _____.

(a) during the calendar year
(b) as on any point of time
(c) during the fiscal year
(d) during any specified period of time

Q28. Gugga Naumi festival is celebrated in which of the following states?

(a) Gujarat
(b) Uttarakhand
(c) Himachal Pradesh
(d) Haryana

Q29. The term 'Dressage' is associate with:

(a) equestrian
(b) polo
(c) rugby
(d) water polo

Q30. Shovana Narayan, a famous Kathak dancer, received the _____ in 1992.

(a) Padma Bhushan
(b) Kalidas Samman
(c) Kabir Puraskar
(d) Padma Shri

Q31. Saikhom Mirabai Chanu, the Indian weightlifter, won _____ medal at Commonwealth games 2022.

(a) no
(b) Bronze
(c) Gold
(d) Silver

Q32. According to Census of India 2011, what is the percentage of India's population living in rural areas?

(a) 86.3%
(b) 68.8%
(c) 76.3%
(d) 61.3%

Q33. The committee to 'Operationalise the Suggestions to Teach Fundamental Duties to the Citizens of the Country' is popularly known as the _____.

(a) L P Singh committee
(b) Abhijit Sen committee
(c) Paul Appleby committee
(d) J S Verma Committee

Q34. Which of the following airports is India's first to be completely powered by solar energy?

(a) Kempe Gowda International Airport (KIA), Bangalore
(b) Indira Gandhi International Airport (IGIA), Delhi
(c) Cochin International Airport Limited (CIAL), Kerala
(d) Chhatrapati Shivaji Maharaj International Airport (CSMIA), Mumbai

YourMockTest.com — Free Study Material

Q35. How many prizes were presented at the National Sports and Adventure Awards 2022 held on November 30,2022, at Rashtrapati Bhawan?

(a) 38
(b) 44
(c) 40
(d) 30

Q36. In which year was the Vernacular Press Act passed?

(a) 1867
(b) 1882
(c) 1878
(d) 1876

Q37. Asghari Bai is primarily remembered for her contribution to which of the following genres of music?

(a) Folk
(b) Carnatic
(c) Dhrupad
(d) Ghazal

Q38. GNP at MP less _____ gives us GDP at MP.

(a) depreciation
(b) indirect taxes
(c) net factor income from abroad
(d) subsidies

Q39. Which of the following is the INCORRECT sequence of national income from broader to narrower concepts?

(a) GNP at market prices - NNP at factor cost - NNP at market prices - GNP at factor cost
(b) GNP at market prices - NNP at market prices - NNP at factor cost - Personal income
(c) NNP at factor cost-Personal income-Personal disposable income
(d) GNP at factor cost - NNP at factor cost - Personal income - Personal disposable income

Q40. If the uncertainty in position and momentum are equal, the uncertainty in velocity will be:

(a) √(h / π)
(b) 1 / 2 m √(h / π)
(c) √(h / 2 π)
(d) √(h / 2 π m)

Q41. The book 'Rajatarangini' is about the history of which state written in 12^(th) century CE?

(a) Bengal
(b) Kashmir
(c) Sindh
(d) Assam

Q42. Chhau is a popular folk dance of which state-pair from the following?

(a) Assam and Bihar
(b) Odisha and Bihar
(c) Bihar and West Bengal
(d) Odisha and West Bengal

Q43. Which of the following rivers originates from the Milam Glacier in Uttarakhand?

(a) Sutlej
(b) Ganges
(c) Gori Ganga
(d) Yamuna

YourMockTest.com — Free Study Material

Q44. Which of the following is an advantage of foreign competition?

(a) No requirement to develop new products
(b) Incentive to produce efficiently
(c) Expansion of foreign market
(d) Saving of foreign exchange reserves

Q45. Which of the following cell organelles can make copies of themselves?

(a) Golgi apparatus
(b) Vacuole
(c) Cytoplasm
(d) Mitochondria

Q46. Match List I with List II and choose your answer from the code below:

	List I		List II
i.	Service tax	a.	Capital receipt
ii.	Interest receipts	b.	Revenue expenditure
iii.	Sale of shares of PSUs	c.	Non-tax revenue
iv.	Salaries and pension	d.	Tax revenue

(a) i - d, ii - c, iii - b, iv - a
(b) i - c, ii - b, iii - a, iv - d
(c) i - d, ii - c, iii - a, iv - b
(d) i - d, ii - a, iii - c, iv - b

Q47. Which of the following is a valid bond in Alkenes that connects carbon atoms?

(a) Single bond
(b) Double bond
(c) Triple bond
(d) Not connected

Q48. In March 2023, Manik Saha took oath as the new Chief Minister of which of the following States?

(a) West Bengal
(b) Tamil Nadu
(c) Assam
(d) Tripura

Q49. Who among the following wrote in calligraphic style the Hindi version of the original Indian Constitution?

(a) SN Mukherjee
(b) Prem Behari Narain Raizada
(c) Vasant Krishan Vaidya
(d) Nand Lal Bose

Q50. In the context of mapping climate data, what term refers to a line drawn through all points on a map that contain the same amount of cloud?

(a) Isohels
(b) Isocheim
(c) Isonephs
(d) Isochalaz

QUANTITATIVE APTITUDE

YourMockTest.com — Free Study Material

Q51. A shopkeeper earns a profit of 20% after offering a discount of 10% on the marked price of an electric mixer. What is the cost price (in Rs.) of the electric mixer having marked price Rs. 6,500?

(a) 4,900
(b) 4,825
(c) 4,850
(d) 4,875

Q52. Study the following table carefully and answer the question that follows.

State / Year	1994	1995	1996	1997	1998
Maharashtra	723	840	900	920	925
Kerala	1035	940	1200	1400	1500
Karnataka	750	600	830	575	900
West Bengal	500	550	450	600	525
Delhi	1500	1625	1700	1475	1800
Andhra Pradesh	800	840	875	925	785
Total	5308	5395	5955	5895	6435

In the case of which state/UT was there a continuous increase in the number of students over the given years?

(a) Andhra Pradesh
(b) Maharashtra
(c) Karnataka
(d) West Bengal

Q53. X, Y and Z can complete a piece of work in 20,12 and 28 days, respectively. If all work together, the approximate number of days to complete the work will be:

(a) 6
(b) 7
(c) 4
(d) 5

Q54. If each side of a cube is decreased by 12%, then the percentage decrease in its surface area is:

(a) 25.66%
(b) 28.23%
(c) 22.56%
(d) 26.54%

Q55. A trader allows a discount of 5% for cash payment. What percentage above the cost price must he mark his goods to make a profit of 14%?

(a) 30%
(b) 40%
(c) 50%
(d) 20%

Q56. In a circle of radius 8 units, a chord of length 10 units is drawn. What is the perpendicular distance of the chord from the centre of the circle in units?

(a) √39 Unit
(b) √35 Unit
(c) √30 Unit
(d) √33 Unit

YourMockTest.com — Free Study Material

Q57. Lakshita purchased a sofa set at a discount of 25%. As per her calculations, she noticed that if she would have not been given this discount, she would have paid Rs. 22,400 more as the cost of this sofa set. How much did Lakshita pay for the sofa set?

(a) Rs. 22,400
(b) Rs. 33,600
(c) Rs. 67,200
(d) Rs. 67,000

Q58. If $(y-1/y)=8$, find the value of $(y^2+1/(y^2))$.

(a) 64
(b) 62
(c) 60
(d) 66

Q59. If $l + m + n = 0$, then what will be the value of $((l^2)/(m\ n)+(m^2)/(n\ l)+(n^2)/(l\ m))^2$?

(a) 9
(b) 16
(c) 4
(d) 1

Q60. A man bought 13 chairs at Rs. 150 each and 15 chairs at Rs. 130 each. The average price of a chair (to the nearest rupee) is:

(a) Rs. 130
(b) Rs. 145
(c) Rs. 142
(d) Rs. 139

Q61. If tan (5θ -10°) = cot (5φ + 20°), then the value of θ + φ is:

(a) 16°
(b) 18°
(c) 15°
(d) 20°

Q62. A chord of length 24 cm is at a distance of 5 cm from the center of the circle. The radius of the circle is:

(a) 13 cm
(b) 12 cm
(c) 16 cm
(d) 15 cm

Q63. Deepak starts a business with a capital of Rs. 1,60,000. He incurs a loss of 10% during the first year. But he makes a profit of 5% during the second year on his remaining investment. Finally, he makes a profit of 25% on his new capital during the third year. Find his total profit at the end of three years.

(a) Rs. 29,500
(b) Rs. 29,000
(c) Rs. 28,000
(d) Rs. 28,500

Q64. At a certain annual rate (rounded off to the nearest integer) of simple interest, a sum of money becomes nine times its original value in 21 years. By how much does the rate of interest change if the same sum of money has to become 12 times its original value in 25 years?

(a) Decreases by 6%
(b) Increases by 6%
(c) Increases by 8%
(d) Decreases by 8%

YourMockTest.com — Free Study Material

Q65. In a circle, an arc subtends an angle of 84° at the centre. If the length of the arc is 22 cm, then the radius of the circle (in cm) is equal to:

Take π=22/7

(a) 19
(b) 15
(c) 17
(d) 13

Q66. If θ is an acute angle and sin θ cos θ = 2 cos³ θ-1/4 cos θ, then the value of sin θ is:

(a) (√15-1)/8
(b) (√15-1)/4
(c) (√15+1)/4
(d) (√15-1)/2

Q67. The value of (sin 45° + cos 45°) is _____.

(a) 2√2
(b) 1/√2
(c) 1
(d) √2

Q68. In a mixture, the ratio of a chemical X and water is 15 : 9. When 48 litres of this mixture is replaced with water, the ratio becomes 11 : 13. Find the quantity of water after replacement.

(a) 97.5 litres
(b) 99 litres
(c) 92 litres
(d) 102.5 litres

Q69. Three partners P, Q and R invest Rs. 1,000, Rs. 1,200 and Rs. 1,500, respectively, in a business. What should be the share of Q if the total profit is Rs. 666?

(a) Rs. 216
(b) Rs. 275
(c) Rs. 252
(d) Rs. 284

Q70. If (a+b+c) = 20 and a2 +b2+c2 = 262, then find the value of ab+bc+ca.

(a) 69
(b) 72
(c) 84
(d) 48

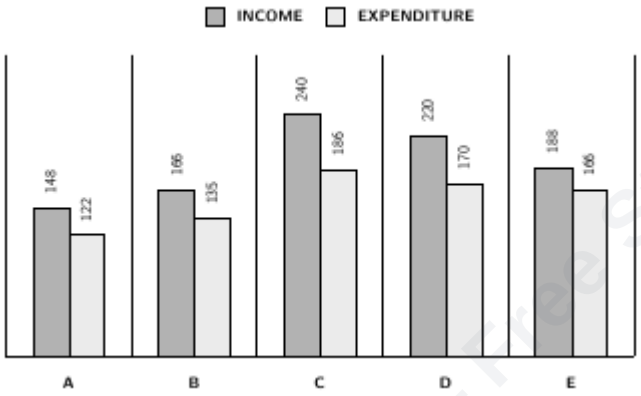
Q71. Find the value of the given expression.

((4 1/3+3 1/3 × 1 4/5 ÷ 3 3/4 ×(1 1/2+1 1/3)))/((2/3 ÷ 5/6 × 2/3))

(a) 11 3/8
(b) 10 1/8
(c) 14 3/8
(d) 16 5/8

Q72. The following bar graph gives the details of income and expenditure of five companies A, B, C, D, E (in crores of rupees)

YourMockTest.com — Free Study Material



The profit percentage ((Income-Expediture)/Expenditure × 100)) is highest for the company:

(a) D
(b) E
(c) A
(d) C

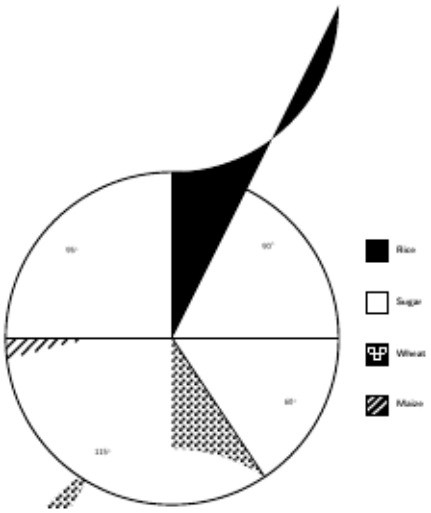
Q73. In triangle STU, V is a point on the side ST and W is a point on the side SU such that VWUT is a trapezium. Given that VW : TU = 2 : 7, what is the ratio of area of trapezium VWUT to the area of the triangle STU?

(a) 4 : 49
(b) 4 : 45
(c) 45 : 49
(d) 49 : 81

Q74. Sanjana can row a boat at 9 km/h in the still water. It takes her twice as long to row up a certain distance as to row down the same distance in the river. What is the rate of the stream (in km/h)?

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

Q75. The annual agricultural production (in tonnes) of an Indian state is given in the pie chart. The total production is 12960 tonnes.



What is the annual production of Maize?

(a) 3240 tonnes
(b) 4140 tonnes

(c) 3420 tonnes
(d) 2160 tonnes

GENERAL AWARENESS

Q76. Select the most appropriate option to fill in the blank.
My cousin owns a shop of food _____.
(a) additives
(b) addetivis
(c) aditives
(d) addetives

Q77. Select the most appropriate option to substitute the underlined segment in the following sentence.
The newly admitted students has been given a pair of uniforms by the management.
(a) are been given a pair
(b) has given a pair
(c) have been given a pair
(d) have being given a pair

Q78. Select the most appropriate option that can substitute the underlined words in the given sentence.
Are you sure you have go to drop her at the airport?
(a) you will go to
(b) you should have to go to
(c) you had to go to
(d) you might go to

Q79. Select the most appropriate synonym of the given word.
Survey
(a) Disregard
(b) Slothful
(c) Scrutinise
(d) Apathy

Q80. Select the most appropriate idiom for the underlined segment in the following sentence.
Rohit is very mischievous and always annoys his teachers.
(a) Gets in his teacher's hair
(b) Puts his shoulders to the wheel
(c) A storm in a tea cup
(d) Leads up the garden path

Q81. Select the most appropriate option that can substitute the underlined segment in the given sentence.
Pooja could feel the anger building off inside her.
(a) building upon inside her
(b) building of inside her
(c) building on inside her
(d) building up inside her

Q82. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Can you please / pass me a sweater? / It's going to be / the cold day today.
(a) Can you please
(b) the cold day today
(c) It's going to be
(d) pass me a sweater?

YourMockTest.com — Free Study Material

Q83. Select the most appropriate option that can substitute the underlined words in the following sentence.

The health-care system is in transition at those moment.

(a) at that moments
(b) at the moment
(c) at a moments
(d) at these moment

Q84. Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

A.groups such as migrants and
B.collecting data on vulnerable population
C.persons with disabilities is crucial
D.understanding who are being left behind
E.in identifying the challenges they face and

(a) EADCB
(b) CABED
(c) BACED
(d) DACBE

Q85. Select the most appropriate meaning of the homonym in the context of the following sentence to fill in the blank.

They do not say anything but stalk furiously out of the room.

'Stalk' here means _____.

(a) the stem or main axis of a plant
(b) to walk in an angry or proud way
(c) to go through an area in search of prey
(d) recur constantly and spontaneously

Q86. Select the most appropriate ANTONYM of the underlined word.

The Tokyo Games accelerated energy policies in Japan, demonstrating how they could make steps towards a low-carbon economy by powering the athletes' village with hydrogen from clean, green sources.

(a) inspiring
(b) exploring
(c) collating
(d) hiding

Q87. Select the option that expresses the given sentence in active voice.

The guilty are punished by the judge.

(a) The judge is punishing the guilty.
(b) The judge punishes the guilty.
(c) The judge has been punishing the guilty.
(d) The judge has punished the guilty.

Q88. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Can you please / open a door? / I can hear / somebody knocking.

(a) Can you please
(b) somebody knocking
(c) I can hear
(d) open a door?

Q89. Select the most appropriate option to fill in the blank.

She suffered an emotional _____ after the death of her husband in a road accident.

(a) turbulense
(b) terbulense

YourMockTest.com — Free Study Material

(c) toorbulence
(d) turbulence

Q90. Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct order to form a meaningful sentence.

A. although many scholars believe that
B. no records of such a commission from Francesco exist,
C. the painting depicts Lisa Gherardini, wife of the Florentine merchant Francesco del Giocondo,
D. and the sitter has never been conclusively identified

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

Q91. Select the most appropriate ANTONYM of the given word.

Hysterical

(a) Controlled
(b) Resolute
(c) Manful
(d) Shy

Q92. Select the most appropriate idiom for the underlined segment in the following sentence.

The child played the video game as much as he wanted to.

(a) To his heart's content
(b) To gild the pill
(c) To kick the bucket
(d) To assume airs

Q93. Select the option that expresses the given sentence in passive voice.

We hope that we shall win the match against Australia.

(a) It is hoped that the match against Australia shall be won by us.
(b) It is expected that the match against Australia should be won by us.
(c) It is hoped that the match against Australia was won by us.
(d) It is sure that the match against Australia was won by us.

Q94. Select the appropriate ANTONYM of the underlined word to fill in the blank.

The flow of the river is very rapid now. Let's go in when it's a little _____.

(a) fast
(b) quick
(c) delayed
(d) slow

Q95. Select the most appropriate synonym of the word 'Flung' from the given sentence.

The entrepreneur's innovative strategies propelled his startup to success.

(a) Strategies
(b) Innovative
(c) Success
(d) Propelled

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Primitive cultures are those that exist in societies that have not yet developed advanced technology or complex social (1)_____ These cultures are often characterised by their close relationship with the natural world. Despite being considered

YourMockTest.com — Free Study Material

'primitive', these cultures have a rich history and a unique way of life that is (2)_____ studying and preserving. These cultures often have a deep understanding of the environment and its cycles, and they have developed intricate systems of knowledge and belief that are closely tied to nature. For example, indigenous cultures in the Amazon rainforest have an (3)___ knowledge of the medicinal properties of plants and the cycles of the seasons, which they use to sustain themselves and their communities. Another important aspect is that these cultures often have complex systems of kinship and social hierarchy. Despite the many challenges that primitive cultures face, including the (4)____ of modern societies and environmental degradation, these cultures have an important role to play in our understanding of the human experience. They offer a different (5)_____ on the world and its complexities, and their traditions and knowledge have the potential to inform and enrich our modern lives.

Q96. Select the most appropriate option to fill in blank 1.

(a) borders
(b) outlines
(c) structures
(d) configurations

Q97. Select the most appropriate option to fill in blank 2.

(a) important
(b) insignificant
(c) worth
(d) trivial

Q98. Select the most appropriate option to fill in blank 3.

(a) acquired
(b) intimate
(c) estimated
(d) gained

Q99. Select the most appropriate option to fill in blank 4.

(a) migration
(b) possession
(c) encroachment
(d) estimation

Q100. Select the most appropriate option to fill in blank 5.

(a) conclusion
(b) perspective
(c) blame
(d) biasness

ANSWER KEY

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

YourMockTest.com — Free Study Material

SOLUTIONS

Q1. Answer: (c) 8, 37

The logic followed here is,

Logic: Second Number = (First Number × 5) - 3

(12, 57)

→ 57 = (12 × 5) - 3

→ 57 = 60 - 3

(16, 77)

→ 77 = (16 × 5) - 3

→ 77 = 80 - 3

Let's check each option as per the logic,

1) (11, 49)

→ 49 = (11 × 5) - 3

→ 49 ≠ 55 - 3

2) (4, 14)

→ 14 = (4 × 5) - 3

→ 14 ≠ 20 - 3

3) (8, 37)

→ 37 = (8 × 5) - 3

→ 37 = 40 - 3 → Satisfies the logic.

4) (21, 106)

→ 106 = (21 × 5) - 3

→ 106 ≠ 105 - 3

Here, we can see that only Option 3 satisfies the logic.

Hence, the correct answer is "8, 37".

Q2. Answer: (a) Friday

As per the given information,

If it was Friday three days ago → Today is Monday.

150 days ago from today, i.e 21 weeks + 3 odd days

=> Monday - 3 = Friday

hence, the correct answer is "Friday".

Mistake Points The question is asks to find the day before 150 days, so subtract the odd day from today.

Q3. Answer: (a) CYF

1) CYF

2) OJL

3) LGI

4) UPR

Here, we can see that Option 1 is different from the others.

Hence, the correct answer is "CYF".

Q4. Answer: (c) 3

Sign	•	•
Interchange with	÷	×

The equation we get after interchanging the signs:

→ 25 - 6 × 4 + 18 ÷ 9 = ?

→ 25 - 6 × 4 + 2 = ?

→ 25 - 24 + 2 = ?

→ 27 - 24 = 3

YourMockTest.com — Free Study Material

Hence, the correct answer is "3".

Q5. Answer: (b) DR 69

The pattern followed here is,

Hence, the correct answer is "DR 69".

Q6. Answer: (c) 17

Let's count the number of rectangles,

Here, we can see that there are 17 rectangles.

Hence, the correct answer is "17".

Q7. Answer: (b) NOA

the pattern followed here is,

Hence, the correct answer is "NOA".

Q8. Answer: (d) 53 : 208

The logic followed here is,

Logic: Second Number = (First Number × 4) + 4

Let's check each option as per the logic,

1) 61 : 248

→ 248 = (61 × 4) + 4

→ 248 = 244 + 4

2) 39 : 160

→ 160 = (39 × 4) + 4

→ 160 = 156 + 4

3) 37 : 152

→ 152 = (37 × 4) + 4

→ 152 = 148 + 4

4) 53 : 208

→ 208 = (53 × 4) + 4

→ 208 ≠ 212 + 4 → Doesn't satisfy the logic.

Here, we can see that only Option 4 doesn't satisfy the logic.

Hence, the correct answer is "53 : 208".

Q9. Answer: (d) [figure]

The correct mirror image of the given figure is shown below,

Hence, the correct answer is "Option 4".

Q10. Answer: (b) Picky : Fussy

The logic followed here is,

Logic: Both words of the pair are synonyms.

Latent : Dormant

→ Both words are synonyms.

Let's check each option,

1) Nice : Demanding

→ Both words are not synonyms.

2) Picky : Fussy

→ Both words are synonyms. → Follows the logic.

3) Lathe : Latex

→ Both words are not synonyms.

4) Pious : Dainty

→ Both words are not synonyms.

Here, we can see that only Option 2 follows the logic.

Hence, the correct answer is "Picky : Fussy".

YourMockTest.com — Free Study Material

Q11. Answer: (d) 69

The pattern followed here is,

Hence, the correct answer is "69".

Q12. Answer: (c) 455

The pattern followed here is,

Hence, the correct answer is "455".

Q13. Answer: (d) • and ×

Let's check each option,

1) ÷ and ×

→ 63 - 23 ÷ 132 × 12 + 7 = 117

→ 63 - 0.17 × 12 + 7 = 117

→ 63 - 2.04 + 7 = 117

→ 70 - 2.04 = 117

→ 67.96 ≠ 117

→ LHS ≠ RHS

2) + and -

→ 63 + 23 × 132 ÷ 12 - 7 = 117

→ 63 + 23 × 11 - 7 = 117

→ 63 + 253 - 7 = 117

→ 316 - 7 = 117

→ 309 ≠ 117

→ LHS ≠ RHS

3) - and ÷

→ 63 ÷ 23 × 132 - 12 + 7 = 117

→ 2.7 × 132 - 12 + 7 = 117

→ 356.4 - 12 + 7 = 117

→ 363.4 - 12 = 117

→ 351.4 ≠ 117

→ LHS ≠ RHS

4) + and ×

→ 63 - 23 + 132 ÷ 12 × 7 = 117

→ 63 - 23 + 11 × 7 = 117

→ 63 - 23 + 77 = 117

→ 140 - 23 = 117

→ 117 = 117

→ LHS = RHS

Here, we can see that only Option 4 satisfies the equation.

Hence, the correct answer is "+ and ×"

Q14. Answer: (b) Husband's mother

The family tree can be drawn using the given information,

Here, we can see that R is the husband's mother of F.

Hence, the correct answer is "Husband's mother".

Q15. Answer: (c) RJX : XHT

ZPJ : FNF

SNT : YLP

Let's check each option,

1) HIG : NFC

2) LOS : FQW

3) RJX : XHT

YourMockTest.com — Free Study Material

4) AND : GQZ

Here, we can see that only Option 3 follows the same relationship.

Hence, the correct answer is "RJX : XHT".

Q16. Answer: (d) 5 - 35 - 7

The logic followed here is,

Logic: Second Number = First Number × Third Number

4 - 24 - 6

→ 24 = 4 × 6

2 - 6 - 3

→ 6 = 2 × 3

Let's check each option as per the logic,

1) 9 - 17 - 3

→ 17 ≠ 9 × 3

2) 6 - 30 - 7

→ 30 ≠ 6 × 7

3) 1 - 9 - 8

→ 9 ≠ 1 × 8

4) 5 - 35 - 7

→ 35 = 5 × 7 => Follows the logic.

Hence, the correct answer is "5 - 35 - 7".

Q17. Answer: (c) 4

As per the given information,

Here, we can see that the code for 'U' is "4".

Hence, the correct answer is "4".

Q18. Answer: (a) 7

As per the given information,

Here, we can see that the code for 'F' is 7.

Hence, the correct answer is "7".

Q19. Answer: (c) [figure]

The logic followed here is:

Hence, the correct answer is "Option 3".

Q20. Answer: (d) 63

The logic followed here is,

Hence, the correct answer is "63".

Q21. Answer: (a) Both conclusions (I) and (II) do not follow.

The least possible venn diagram is shown below,

Conclusions:

(I) Some Turbans are Caps → Not follows (Because this is possible but not definite).

(II) All Hats are Monkeys → Not follows (Because this is possible but not definite).

Hence, the correct answer is "Both conclusions (I) and (II) do not follow".

Q22. Answer: (b) LKLM

Let's check each option,

1	**J**	**K**	**M**	**M**	**J**	**J**	**M**	**L**	**M**	**J**	**J**	**K**	**K**	**J**	**M**	**J**	**J**	**K**	**K**	**L**	**L**	**J**
2	J	K	L	M	J	J	K	L	M	J	J	K	K	L	M	J	J	K	K	L	L	M
3	J	K	L	M	J	J	M	L	M	J	J	K	K	L	M	J	J	K	K	L	L	J
4	J	K	J	M	J	J	K	L	M	J	J	K	K	L	M	J	J	K	K	L	L	J

YourMockTest.com — Free Study Material

Here, we can see that Option 2 completes the series.

Hence, the correct answer is "LKLM".

Q23. Answer: (c) Father

The family tree can be drawn using the given information,

Here, we can see that B is the father of D.

Hence, the correct answer is "Father".

Q24. Answer: (c) CCN

The pattern followed here is:

Hence, the correct answer is "CCN".

Q25. Answer: (a) [figure]

The correct mirror image of the given figure is shown below,

Hence, the correct answer is "Option 1".

Q26. Answer: (c) Japan

The correct answer is Japan.

Key Points

• Procedure established by law:-

• It means that a law has been duly enacted by the competent body following the correct procedure. For example, the procedure mentioned in the constitution.

• The Doctrine of Procedure established by law has been taken from the Japanese Constitution.

Additional Information

The other borrowed provisions from different countries and details of those are given in below:

Countries	Borrowed Provisions
Australia	• Concurrent list - Freedom of trade, commerce - Joint-sitting of the two Houses of Parliament
Canada	• Federation with a strong Centre - Vesting of residuary powers in the Centre - Appointment of state governors by the Centre - Advisory jurisdiction of the Supreme Court
Ireland	• Directive Principles of State Policy - The nomination of members to the Rajya Sabha - Method of election of the President
Japan	• Procedure Established by law
Russia	• Fundamental duties - Ideals of justice (social, economic, and political) in the Preamble
United Kingdom	• Parliamentary government - Rule of Law - Legislative procedure - Single Citizenship - Cabinet system - Prerogative writs - Parliamentary privileges - Bicameralism
The United States of America	• Fundamental rights - Independence of judiciary - Judicial review - Impeachment of the president - Removal of Supreme Court and High Court judges - Post of vice-president
Germany	• Suspension of Fundamental Rights during emergency
South Africa	• Procedure for amendment in the Indian Constitution - Election of members of Rajya Sabha
France	• Republic - Ideals of liberty, equality, and fraternity in the Preamble

Q27. Answer: (d) during any specified period of time

The correct answer is during any specified period of time.

Key Points

• Supply of Money:-

YourMockTest.com — Free Study Material

• It is the quantity of money available during any specified period of time.
• It includes all currency and other liquid assets that can be easily converted to cash.
• The money supply is controlled by the central bank, which can increase or decrease it through a variety of tools, such as open market operations, interest rates, and reserve requirements.
• The money supply has a significant impact on the economy, as it affects interest rates, inflation, and economic growth.
• A central bank's goal is to manage the money supply in a way that promotes economic stability and growth.

Q28. Answer: (d) Haryana

The correct answer is Haryana.

Key Points

• Gugga Naumi:
• It is the festival of Haryana celebrated in the lunar month of Bhadon.
• It is connected with snake worship and is observed in August-September.
• It is a festival in honour of Gugga Pir, which also falls in Bhadon.
• The Pir's devotees paint his image on the wall in turmeric, also paint a snake in black, right in front of it, and then perform the ritual of worship.
• People also pour buttermilk into the holes of snakes.
• Sweet Sevian is the special dish of the festival.

Additional Information

• Festivals of Maharashtra:
• Ganesh Chaturthi
• Gudi Padwa
• Holi
• Diwali
• Makar Sankranti
• Dasara
• Navratri
• Elephanta Festival
• Festivals of Uttar Pradesh:
• Kumbh Mela
• Bateshwar Fair
• Garhmukteshwar Mela
• Nauchandi Mela
• Taj Mahotsav
• Buddha Mahotsav
• Kajari Mahotsav
• Festivals of Rajasthan:
• Gangaur
• Teej
• Bundi Utsav
• Desert Festival
• Mewar Festival

Q29. Answer: (a) equestrian

The correct answer is equestrian.

Key Points

• Equestrian sports:-
• These are sports that use horses as a main part of the sport. This usually takes the form of the rider being on the horse's back, or the horses pulling some sort of horse-drawn vehicle.
• Equestrian sports are a popular form of recreation and competition around the world.
• There are many different types of equestrian sports, each with its own unique rules and challenges.
• Dressage:
• Dressage is a sport in which the horse and rider perform a series of movements that demonstrate the horse's training and

obedience. (Hence it is associated with Equestrian)

• Dressage is often described as a dance between horse and rider.

Additional Information

• Polo:-

• It is a team sport played on horseback, where the objective is to score goals against the opposing team by hitting a small ball into their goal with a long-handled mallet.

• Each team has four players, and the game is typically played on a grass field.

• Rugby:-

• It is a team sport played with an oval ball.

• The objective of the game is to score more points than the opposing team by grounding the ball over the opponent's try-line (scoring a try) or kicking the ball through the opponent's goalposts (scoring a conversion or penalty kick).

• Each team has 15 players on the field at a time, and the game is played on a grass field.

• Water polo:-

• It is a team sport played in water between two teams of seven players each.

• The objective of the game is to score goals by throwing the ball into the opposing team's goal, which is defended by a goalkeeper.

Q30. Answer: (d) Padma Shri

The correct answer is Padma Shri.

Key Points

• Shovana Narayan:-

• Shovana Narayan is a renowned Kathak dancer, who was born on 17 February 1949 in the state of West Bengal, India.

• Shovana Narayan has received several accolades for her contribution to the field of dance, including the Padma Shri and the Sangeet Natak Akademi Award.

• She has also been a part of several international dance festivals and has collaborated with renowned artists from across the world.

Additional Information

• Padma Bhushan:

• The third-highest civilian honor in the Republic of India is the Padma Bhushan.

• It was established on January 2nd, 1954.

• The Indian Prime Minister appoints the Padma Awards Committee each year.

• Between May 1 and September 15, submissions for the prize are accepted.

• Kalidas Samman:-

• It is a prestigious award given by the Government of Madhya Pradesh, India, to individuals who have made outstanding contributions to the field of art.

• The award is named after the ancient Indian poet and playwright Kalidasa, who is considered one of the greatest writers in the Sanskrit language.

• Kabir Puraskar

• It is a national award given by the Government of India to individuals who have made outstanding contributions to the promotion of communal, caste, and ethnic harmony.

• The award is named after the 15th-century Indian poet and mystic Kabir, who was a strong advocate for social justice and religious tolerance.

Q31. Answer: (c) Gold

The correct answer is Gold.

Key Points

• Saikhom Mirabai Chanu:-

• She is an Indian weightlifter who won the silver medal at the 2020 Tokyo Olympics in the women's 49 kg category.

• She is the first Indian woman to win a weightlifting medal at the Olympics.

• She also won the gold medal at the 2022 Commonwealth Games in the same category.

Additional Information

• 2022 Commonwealth Games:-

• Games were held in Birmingham, England, from July 28 to August 8, 2022.

• The Games featured over 6,500 athletes from 72 countries competing in 19 sports and 283 events.

• Australia topped the medal table with 67 gold medals, followed by England (57 gold medals) and Canada (26 gold medals).
• India finished fourth in the medal table with 22 gold medals.

Q32. Answer: (b) 68.8%

The correct answer is 68.8%.

Key Points

• Census of India 2011:
• The 2011 census is the country's 15th national census and the 7th census after independence.
• The Census of the year 2011 was released on March 31, 2011, by the Union Home Secretary and R.G.I. of India.
• The slogan of Census 2011 was 'Our Census, Our Future'.
• Registrar General and Census Commissioner under whom Census 2011 was conducted - C. Chandra Mouli.
• It was conducted in two phases, house listing, and population enumeration.
• According to the Census of India 2011, 68.84% of India's population lived in rural areas.
• This means that over two-thirds of Indians lived in villages, hamlets, and agricultural regions.
• The rural population has been declining in recent years, but it still makes up a significant majority of India's population. Rural areas face a number of challenges, including poverty, lack of infrastructure, and limited access to education and healthcare.

Additional Information

• According to the 2011 census:
• The national literacy rate in the country is 74.04%.
• The literacy rate among males is 82.14%.
• The literacy rate among females is 65.46%.
• Kerala retained the top with a 93.91% literacy rate.
• Serchip in Mizoram is the most literate district in India with 98.23 %..
• Alirajpur in Madhya Pradesh is the least literate district in India.
• Lakshadweep is the most literate union territory in India with a 91.85% literacy rate.
• Dadra Nagar Haveli is the least literate union territory in India with a 76.24% literacy rate.

Q33. Answer: (d) J S Verma Committee

The correct answer is J S Verma Committee.

Key Points

• J S Verma Committee:-
• The committee to 'Operationalise the Suggestions to Teach Fundamental Duties to the Citizens of the Country' was J S Verma Committee.
• It was chaired by Justice J.S. Verma and was appointed by the Atal Bihari Vajpayee government in 1998.
• The committee made a number of recommendations on how to teach fundamental duties to citizens of all ages, including through school curricula, public awareness campaigns, and government programs.
• The J.S. Verma Committee's report also made a number of recommendations on other issues, such as reforming the police and the criminal justice system, and addressing the root causes of violence against women.
• These recommendations have not been fully implemented, but they continue to be relevant and important.

Additional Information

• L.P. Singh Committee:-
• It was a committee appointed by the Government of India in 1978 to examine the role and functioning of the Intelligence Bureau (IB), the Central Bureau of Investigation (CBI), and the Research and Analysis Wing (RAW).
• The committee was headed by L.P. Singh, a former Director General of Police of Uttar Pradesh.
• Abhijit Sen Committee:-
• It was a committee appointed by the Government of India in 2007 to study the impact of futures trading on agricultural commodity prices.
• The committee was headed by Abhijit Sen, a well-known economist and former member of the Planning Commission of India.
• Paul Appleby Committee:-
• It was a committee appointed by the Government of India in 1953 to study and recommend reforms in the Indian administrative system.
• The committee was headed by Paul H. Appleby, an American public administration expert.

YourMockTest.com — Free Study Material

Q34. Answer: (c) Cochin International Airport Limited (CIAL), Kerala

The correct answer is Cochin International Airport Limited (CIAL), Kerala.

Key Points

• Cochin International Airport Limited (CIAL), Kerala:-

• It is the first airport in India to be built under a Public Private Partnership (PPP) model.

• It is also the first ever airport in the world to be fully powered by solar energy.

• CIAL is owned and operated by a public limited company called Cochin International Airport Limited, which has around 18,000 shareholders from 29 countries.

• The Government of Kerala holds a 33.36% stake in the company, making it the single largest investor.

Additional Information

• Kempe Gowda International Airport (KIA), Bangalore:-

• It is an international airport serving Bangalore, the capital of Karnataka, India.

• It is named after Kempe Gowda I, the founder of Bangalore.

• KIA is the third busiest airport in India by passenger traffic, air traffic movements, and domestic and total cargo handled.

• It is also the 29th busiest airport in Asia. In the financial year 2021-22, the airport handled around 16.2 million passengers and 411,550 tonnes of cargo.

• Indira Gandhi International Airport (IGIA), Delhi:-

• It is the largest and busiest airport in India.

• It is named after Indira Gandhi, the former Prime Minister of India.

• Chhatrapati Shivaji Maharaj International Airport (CSMIA), Mumbai:-

• It is the second busiest airport in India in terms of total and international passenger traffic.

• It is located about 30 kilometers north of the city center.

Q35. Answer: (b) 44

The correct answer is 44.

Key Points

• National Sports and Adventure Awards:-

• They are presented annually by the President of India to recognize the achievements of athletes, coaches, and institutions in various sports disciplines.

• The awards were instituted in 1985 and are named after some of India's most legendary sportspersons, including Dhyan Chand, Arjuna, and Major Dhyan Chand.

• The awards are given to individuals and institutions who have made outstanding contributions to the development and promotion of sports in India.

• National Sports and Adventure Awards 2022:-

• These were held on November 30, 2022, at Rashtrapati Bhawan in New Delhi, India.

• A total of 44 prizes were presented to athletes, coaches, and institutions for their outstanding contributions to sports. (Hence option 2 is correct)

• The following awards were presented:

• Major Dhyan Chand Khel Ratna Award (1)

• Arjuna Award (25)

• Dronacharya Award (5)

• Dhyan Chand Award (3)

• Rashtriya Khel Protsahan Puruskar (5)

• Maulana Abul Kalam Azad Trophy (1)

• Tenzing Norgay National Adventure Award (12)

Q36. Answer: (c) 1878

The correct answer is 1878.

Key Points

• Vernacular Press Act 1878:

• Lord Lytton passed the Vernacular Press Act in 1878 to restrict vernacular newspapers from publishing any seditious material.

• The Act aimed to control the writings of Indians against the British policies and could excite dissatisfaction in the Indians against the British government.

• According to the Vernacular Press Act, any magistrate or police commissioner had the power to order any printer or publisher of a newspaper to sign a bond promising not to publish a specific type of material and to seize any printed materials it deemed offensive.

• The Act required that all proof sheets of a paper's contents be submitted to the police before publication.

• Thus, the Act allowed the British government to keep track of the vernacular newspapers writing against the Britishers and opposing their policies.

• When a newspaper's writing was considered "seditious", the newspaper was first warned and had to face serious consequences the next time.

Q37. Answer: (c) Dhrupad

The correct answer is Dhrupad.

Key Points

• Asghari Bai:-

• She was an Indian Dhrupad singer.

• She was one of the oldest and most respected exponents of this ancient form of Hindustani classical music.

• She was also a woman in a male-dominated field, which made her achievements even more remarkable.

• Asgari Bai was known for her powerful and expressive voice, as well as her deep understanding of the Dhrupad tradition.

• She was also a gifted teacher, and she mentored many young musicians over the years.

• In recognition of her contributions to music, Asgari Bai was awarded numerous honors and awards, including the Padma Shri, the Tansen Samman, and the Shikhar Samman.

• She was also featured in a documentary film, Asgari Bai (1998), which explores her life and work.

• Dhrupad:-

• It is a form of Hindustani classical music that originated in North India.

• It is one of the oldest and most prestigious forms of Indian classical music, and is characterized by its slow tempo, complex rhythms, and intricate vocal ornamentation.

Additional Information

• Carnatic music:-

• It is a form of Indian classical music that originated in South India.

• It is characterized by its complex rhythms and melodies, based on the classical Indian frameworks of talas and ragas.

• Ghazal:-

• It is a form of lyric poetry that originated in the Arabic world in the 7th century.

• It is characterized by its unique rhyme scheme and thematic structure.

Q38. Answer: (c) net factor income from abroad

The correct answer is net factor income from abroad

Key Points

• Gross National Product at Market Price:-

• It is the total market value of all final goods and services produced by a country's residents in a given period, regardless of where they are located.

• GNP at MP less net factor income from abroad gives us GDP.

• Formula for it is GNP at MP = GDP at MP + Net factor income from abroad

Additional Information

• GDP:-

• It stands for Gross Domestic Product.

• It is the total monetary value of all the finished goods and services produced within a country's borders in a specific time period.

• It is one of the most important indicators of a country's economic health.

• Subsidies:-

• A subsidy is a financial benefit given by a government to a producer or consumer of a good or service.

• Subsidies can be direct or indirect. Direct subsidies are payments made to the producer or consumer, while indirect subsidies are tax breaks or other benefits that reduce the cost of production or consumption.

• Indirect tax:-

• It is a tax that is levied on the consumption of goods and services.

• It is not directly levied on the income of a person.

YourMockTest.com — Free Study Material

Q39. Answer: (a) GNP at market prices - NNP at factor cost - NNP at market prices - GNP at factor cost

The correct answer is GNP at market prices - NNP at factor cost - NNP at market prices - GNP at factor cost

Key Points

• GNP at market prices - NNP at factor cost - NNP at market prices - GNP at factor cost is not correct.

• Gross National Product:-

• It is the total market value of all final goods and services produced in a country in a given period of time, regardless of the nationality of the owners of the factors of production.

• Net National Product:-

• It is the GNP minus depreciation, which is the consumption of fixed capital.

• Factor cost:-

• It refers to the cost of the factors of production, such as labor, land, and capital.

• Market price:-

• It refers to the price at which goods and services are sold in the market.

• The expression GNP at market prices - NNP at factor cost is not correct, because GNP is already measured at market prices. Similarly, the expression NNP at market prices - GNP at factor cost is incorrect because NNP is already measured at factor cost.

• A correct expression for the difference between GNP at market prices and NNP at factor cost is: GNP at market prices - NNP at factor cost = Net indirect taxes.

Q40. Answer: (b) 1 / 2 m √(h / π)

The correct answer is 1 / 2 m √(h / π)

Key Points

Concept:

Heisenberg's Uncertainty Principle:

• W Heisenberg a German physicist in 1927, stated the uncertainty principle which is the consequence of dual behavior of matter and radiation.

• It states that it is impossible to determine simultaneously, the exact position and exact momentum (or velocity) of an electron.

According to Heisenberg's Uncertainty Principle

$\Delta x \times \Delta P \geq h/(4\pi)$

Where, Δx = Uncertainty in position, ΔP = Uncertainty in momentum, h = Plank's constant

$\Delta P = m \Delta v$

Where, ΔP = Uncertainty in momentum, m = mass of particle, Δv = Uncertainty in velocity.

Calculation:

Given: $\Delta x = m \Delta v$

According to Heisenberg's Uncertainty Principle

$\Delta x \times \Delta P \geq h/(4\pi)$

$\Delta P = m \Delta v$

$\Delta x \times m\Delta v \geq h/(4\pi)$

$m\Delta v \times m\Delta v \geq h/(4\pi)$

$m^2\Delta v2 = h/4\pi$

$\Delta v = \sqrt{(h/4\pi)} \times 1/m$

$\Delta v = 1/(2 m)\sqrt{(h/\pi)}$

Q41. Answer: (b) Kashmir

The correct answer is Kashmir.

Key Points

• Rajatarangini:-

• It is a metrical legendary and historical chronicle of the north-western part of India, particularly the kings of Kashmir.

• It was written in Sanskrit by Kashmiri historian Kalhana in the 12th century CE.

• It is about the history of the state of Jammu and Kashmir, written in the 12th century CE.

• The work consists of 7826 verses, which are divided between eight books called tarangas ("waves").

• The Rajatarangini provides the earliest source on Kashmir that can be labeled as a "historical" text on this region.

• Although inaccurate in its chronology, the book still provides an valuable source of information about early Kashmir and its neighbors in the north western parts of the Indian subcontinent, and has been widely referenced by later historians and

ethnographers.

Q42. Answer: (d) Odisha and West Bengal

The correct answer is Odisha and West Bengal.

Key Points

• Chhau dance:-

• It is a popular folk dance form that is performed in the states of Odisha and West Bengal.

• It is a versatile dance form that represents folk culture through songs, stories, and dance movements.

• The dance is usually performed in groups, with both male and female dancers. The dancers wear traditional costumes, which usually include a blouse, a skirt, and a sari.

• Chhau dance is often performed at festivals and other special occasions.

• The songs and stories that are performed during the dance are often about love, adventure, or religious themes.

• The dance movements are usually simple and popular, and they are often accompanied by traditional folk instruments such as the dhol and the harmonium.

• Examples of Chatu dance performances:

• Odisha: The Puri Chhau Utsav is a popular annual festival that features Chatu dance performances from all over the state.

• West Bengal: The Purulia Chhau dance is a UNESCO World Heritage Site that incorporates Chatu dance elements.

Q43. Answer: (c) Gori Ganga

The correct answer is Gori Ganga.

Key Points

• Gori Ganga:-

• Gori Ganga is a river in the Munsiari tehsil of the Pithoragarh District, part of the state of Uttarakhand in northern India.

• Its principal source is the Milam Glacier, just northeast of Nanda Devi along with the Glaciers of the Ralam River, and the Pyunshani and Uttari & Dakshini Balati Glaciers that lie on the western face of the Panchachuli Peaks.

• The Gori Ganga flows through the Nanda Devi Sanctuary, a UNESCO World Heritage Site.

• It is known for its scenic beauty and pristine waters. The river is also a popular destination for whitewater rafting and kayaking.

• The Gori Ganga joins the Kali River at Jauljibi, after flowing for a distance of about 104 kilometers.

Additional Information

• Sutlej:

• The Sutlej is the easternmost of the five major rivers of the Punjab region.

• It rises in the Himalayas in Tibet and flows through India and Pakistan before joining the Indus River.

• The Sutlej is a major source of irrigation water for both countries.

• Ganges:

• The Ganges is the most sacred river in Hinduism and is considered to be a goddess.

• It rises in the Himalayas in Uttarakhand and flows through several Indian states before draining into the Bay of Bengal.

• The Ganges is a major source of drinking water and irrigation water for millions of people.

• Yamuna:

• The Yamuna is the largest tributary of the Ganges.

• It rises in the Himalayas in Uttarakhand and flows through several Indian states before joining the Ganges at Allahabad.

• The Yamuna is a major source of drinking water and irrigation water for millions of people.

Q44. Answer: (b) Incentive to produce efficiently

The correct answer is Incentive to produce efficiently.

Key Points

• Foreign Competition:-

• It can be a powerful incentive for domestic firms to produce more efficiently.

• In order to compete with foreign firms, domestic firms must find ways to lower their costs and produce higher quality goods and services.

• This can lead to increased innovation, investment in new technologies, and improved management practices.

Additional Information

• No requirement to develop new products: Foreign competition can actually encourage domestic firms to develop new products in order to stay ahead of the competition.

• Expansion of foreign market: Foreign competition can make it more difficult for domestic firms to expand into foreign markets.

YourMockTest.com – Free Study Material

• Saving of foreign exchange reserves: Foreign competition can lead to a decrease in foreign exchange reserves, as domestic firms import more goods and services from foreign countries.

Q45. Answer: (d) Mitochondria

The correct answer is Mitochondria

Key Points

• Mitochondria:-

• Mitochondria is is a double-layered cell organelle, in which the outer layer is porous and the inner layer is folded upon itself is known to be "cristae"

• The number of mitochondria in a single cell may be up to 50 to 5000.

• It can make copies of themselves.

• The inner lumen of mitochondria contains ribosome phosphate particles and DNA molecules.

• It has the potential to synthesize its own protein and oxidation of carbohydrates and fats are taken place with the help of enzymes in mitochondria.

• This energy is stored in the form of ATP (Adenosine Triphosphate) so, these are known as the "Powerhouse of the cell".

Additional Information

• Golgi apparatus:-

• It is a membrane-bound organelle found in eukaryotic cells that is responsible for processing and packaging proteins and lipids for secretion or use within the cell.

• It is made up of a series of flattened, stacked pouches called cisternae.

• The Golgi apparatus is located near the endoplasmic reticulum and the nucleus.

• Vacuole:-

• It is a membrane-bound organelle found in eukaryotic cells that stores a variety of substances, including water, ions, nutrients, and waste products.

• Plant cells typically have one large central vacuole, while animal cells may have multiple smaller vacuoles.

• Vacuoles play a role in maintaining cell shape, regulating cell volume, and storing and releasing substances.

• Cytoplasm:-

• The jelly-like substance that fills the cell and contains all of the cell's organelles, except for the nucleus.

• The cytoplasm is made up of water, proteins, carbohydrates, lipids, and other molecules.

• It is the site of many important cellular processes, including metabolism, protein synthesis, and cell division.

Q46. Answer: (c) i - d, ii - c, iii - a, iv - b

The correct answer is i - d, ii - c, iii - a, iv - b.

Key Points

• Service tax:-

• It is a tax levied on the provision of services. It is a type of indirect tax.

• It is paid by the consumer but collected by the service provider.

• Service tax is a source of tax revenue for the government.

• Interest receipts:-

• These are earned when the government lends money to individuals or organizations.

• Interest receipts are a type of non-tax revenue, meaning that they are not generated from taxes.

• Sale of shares of PSUs:-

• It is the process of disinvesting the government's stake in public sector undertakings (PSUs).

• The proceeds from the sale of PSU shares are a type of capital receipt, meaning that they are not used to meet current expenses.

• Salaries and pension:-

• These are payments made to government employees and pensioners.

• Salaries and pension are a type of revenue expenditure, meaning that they are used to meet the current expenses of the government.

	List I		**List II**
i.	Service tax	d.	Tax revenue
ii.	Interest receipts	c.	Non-tax revenue

iii.	Sale of shares of PSUs	a.	Capital receipt
iv.	Salaries and pension	b.	Tax revenue

Q47. Answer: (b) Double bond

The correct answer is Double bond.

Key Points

• Alkenes:-

• These are hydrocarbons that contain at least one carbon-carbon double bond.

• The general formula for alkenes is C_nH_(2n), where n is the number of carbon atoms in the molecule.

• The carbon-carbon double bond in alkenes is formed by the overlap of one sigma bond and one pi bond.

• The sigma bond is formed by the overlap of two hybridized sp2 orbitals from each carbon atom.

• The pi bond is formed by the overlap of two unhybridized p orbitals from each carbon atom.

• The pi bond is weaker than the sigma bond, and this makes alkenes more reactive than alkanes, which only contain single bonds between carbon atoms.

Q48. Answer: (d) Tripura

The correct answer is Tripura.

Key Points

• Manik Saha:-

• He is a dentist by profession and has been involved in politics for several years.

• He was elected to the Tripura Legislative Assembly in 2022 from the Town Bordowali constituency.

• Thus, Manik Saha took oath as the new Chief Minister of Tripura in March 2023.

Additional Information

• West Bengal:-

• Mamata Banerjee of All India Trinamool Congress is the Chief Minister of West Bengal.

• She is the first woman to hold this position. She is known for her populist policies and her strong leadership.

• Assam:-

• Himanta Biswa Sarma of Bharatiya Janata Party is the Chief Minister of Assam.

• He is known for his administrative skills and his focus on development.

• Tamil Nadu:-

• M. K. Stalin of Dravida Munnetra Kazhagam is the Chief Minister of Tamil Nadu.

• He is known for his Dravidian ideology and his commitment to social justice.

Q49. Answer: (c) Vasant Krishan Vaidya

The correct answer is Vasant Krishan Vaidya.

Key Points

• Vasant Krishan Vaidya:-

• He was a renowned Indian calligrapher.

• He was responsible for the calligraphy of the Hindi version of the original Constitution of India.

• He worked on the project for six months, using hundreds of pen nibs to create the intricate and beautiful calligraphy.

• He was born in Indore, Madhya Pradesh, and began learning calligraphy at a young age.

• He was known for his flowing and elegant calligraphy style, which he developed by studying the works of ancient Indian calligraphers.

Additional Information

• Prem Behari Narain Raizada:-

• He was an Indian calligrapher who is best known for writing the original Constitution of India in English.

• He was born in Delhi, India, into a family of calligraphers.

• His grandfather, Seth Govind Ram, was a renowned calligrapher who taught him the art of calligraphy.

• Nandalal Bose:-

• He was one of the pioneers of modern Indian art.

• He was born in Kharagpur, Bihar, India, into a Bengali family.

• He studied art at the Government Art College, Calcutta, where he was a student of Abanindranath Tagore.

YourMockTest.com — Free Study Material

Q50. Answer: (c) Isonephs

Key Points

• Isoneph:-

• It refers to a line drawn through all points on a map that contain the same amount of cloud.

• It is a type of isoline, which is a line that connects points of equal value.

• Other common isolines include contour lines (elevation), isobars (atmospheric pressure), and isotherms (temperature).

• Isonephs are used by meteorologists and climatologists to visualize the distribution of cloud cover over a region.

• They can be used to identify areas of high and low cloud cover, as well as to track the movement of clouds over time.

Additional Information

• Isohels:-

• These are lines drawn on a map that connect points of equal sunshine duration.

• Isocheims:-

• These are lines drawn on a map that connect points of equal temperature.

• Isochalaz:-

• These are lines drawn on a map that connect points of equal hail size.

Q51. Answer: (d) 4,875

Given :

Profit = 20%

Discount = 10%

Calculation :

Now by making SP same,

=> 20 unit = 6500

=> 1 unit = 325

CP = 15 unit × 325 = 4875

Therefore The correct answer is Rs.4875.

Q52. Answer: (b) Maharashtra

Calculation :

By going through the table we can see that,

Maharashtra has the continuous increase in the number of students over the given years.

Therefore The correct answer is Maharashtra.

Q53. Answer: (a) 6

Given :

X, Y and Z can complete a piece of work in 20,12 and 28 days.

Formula Used :

Work done = time × efficiency

Calculation :

Total work = LCM(20,12, 28) = 420

Efficiency of X = 420/20 = 21

Efficiency of Y = 420/12 = 35

Efficiency of Z = 420/28 = 15

Time taken by (X + Y + Z) together = 420/(21 + 35 + 15) = 5.91 (approx)

Therefore The correct answer is 6.

Q54. Answer: (c) 22.56%

Formula Used :

Surface area of cube = 6a2

Calculation :

Decrease in side = 12% = 12/100 = 3/25

Original side length = 25

New side length = 22

Original Surface area = $6 \times 25^2 = 3750$

New Surface area = $6 \times 22^2 = 2904$

Decrease in surface area = $846/3750 \times 100 = 22.56\%$

Therefore The correct answer is 22.56%.

Q55. Answer: (d) 20%

Given :

Discount = 5 %

Profit = 14%

Calculation :

Now by making the SP same,

Percentage Markup = $190/950 \times 100 = 20\%$

Therefore The correct answer is 20%.

Q56. Answer: (a) √39 Unit

Formula Used :

$H^2 = P^2 + B^2$

Calculation :

=> $OC^2 = OB^2 - BC^2$

=> $OC^2 = 64 - 25$

=> $OC^2 = 39$

=> OC = √39 units

Therefore The correct answer is √39 units.

Q57. Answer: (c) Rs. 67,200

Given :

Discount = 25%

Calculation :

=> 25% = 1/4

=> MP = 4 unit, SP = 3 unit

=> 1 unit = 22400

SP = 3 unit × 22400 = 67200

Therefore The correct answer is 67200.

Q58. Answer: (d) 66

Given :

$(y-1/y)=8$

Formula Used :

$(a - b)^2 = a^2 + b^2 - 2ab$

Calculation :

=> $64 = y^2 + 1/y^2 - 2$

=> $y^2 + 1/y^2 = 64 + 2$

=> 66

Therefore The correct answer is 66.

Q59. Answer: (a) 9

Given:

$l + m + n = 0$

Formula Used:

If $x + y + z = 0$ then, $x^3 + y^3 + z^3 = 3xyz$

Calculation:

=> $(l^2/mn \times l/l + m^2/nl \times m/m + n^2/lm \times n/n)^2$

=> $\{(l^3 + m^3 + n^3) / lmn\}^2$

=> $(3\ lmn / lmn)^2$

=> 9

Therefore The correct option is 1.

Alternate Method Let, l = 2, m = -1, n = -1, satisfing the given equation l + m + n = 0

Putting the value in the given expression

=> {4 + (-1/2) + (-1/2)}²

=> (4-1)² = 9

Therefore The correct option is 1.

Q60. Answer: (d) Rs. 139

Given :

13 chairs at Rs. 150 each.

15 chairs at Rs. 130 each.

Formula Used :

Average = Sum of all observations/Number of observations.

Calculation :

=> 13 × 150 + 15 × 130/(13 + 15)

=> (1950 + 1950)/28

=> 3900/28

=> 139.28 (approx)

Therefore The correct answer is 139.

Q61. Answer: (a) 16°

Calculation :

=> 5θ -10° = 45°

=> 5θ = 55°

=> θ = 11°

Now,

=> 5φ + 20° = 45°

=> 5φ = 25°

=> φ = 5°

=> θ + φ = 11 + 5 = 16°

Therefore The correct answer is 16°.

Q62. Answer: (a) 13 cm

Formula Used :

$H^2 = P^2 + B^2$

Calculation :

=> $OB^2 = 5^2 + 12^2$

=> $OB^2 = 25 + 144$

=> $OB^2 = 169$

=> OB = 13

Therefore The correct answer is 13 cm.

Q63. Answer: (b) Rs. 29,000

Shortcut Trick

Successive multiplying factor = (90/100) × (105/100) × (125/100)

Final Amount = Rs. 1,60,000 × (9/10) × (21/20) × (5/4)

Final Amount = Rs. 1,60,000 × (945/800)

Final Amount = Rs. 200 × 945 = Rs. 1,89,000

Total Profit = Final Amount − Initial Capital = Rs. 1,89,000 − Rs. 1,60,000 = Rs. 29,000

Therefore The correct answer is Rs. 29,000.

Alternate Method

Given:

Initial Capital (P) = Rs. 1,60,000

Loss in 1st year = 10%

Profit in 2nd year = 5%

Profit in 3rd year = 25%

Formula Used:

Final Amount = P × (1 − L/100) × (1 + P1/100) × (1 + P2/100)

Total Profit = Final Amount − Initial Capital

Calculations:

=> Amount after 1st year = 1,60,000 × (1 − 10/100)

=> Amount after 1st year = 1,60,000 × (90/100) = Rs. 1,44,000

=> Amount after 2nd year = 1,44,000 × (1 + 5/100)

=> Amount after 2nd year = 1,44,000 × (105/100) = Rs. 1,51,200

=> Amount after 3rd year = 1,51,200 × (1 + 25/100)

=> Amount after 3rd year = 1,51,200 × (125/100) = Rs. 1,89,000

=> Total Profit = Final Amount − Initial Capital

=> Total Profit = 1,89,000 − 1,60,000 = Rs. 29,000

Therefore The correct answer is Rs. 29,000.

Additional Information

Successive Percentage Change

When a value experiences continuous sequential changes, the net resultant value is determined by continuously multiplying the base amount with successive fractional factors: Final = Base × (1 ± r1/100) × (1 ± r2/100).

Equivalent Percentage Change

For two consecutive percentage changes of a% and b%, the combined overall percentage effect can be strictly derived from the direct formula: Net Change = (a + b + ab/100)%. In this formula, instances of decline or loss must be appropriately noted as negative quantities.

Compound Interest Analogy

The arithmetic principle of determining consecutive profits or losses computed on a continually updated principal is structurally identical to the framework of Compound Interest, wherein accrued amounts inherently form the foundation for the next interest period.

Q64. Answer: (b) Increases by 6%

Formula Used :

RT = (n - 1)100

Calculation :

=> R × 21 = 8 × 100

=> R = 800/21 = 38%

And,

=> R × 25 = 11 × 100

=> R = 1100/25 = 44%

Difference = 44 - 38 = 6%

Therefore The correct answer is 6%.

Q65. Answer: (b) 15

Formula Used :

Length of arc = θ/360° × 2πr

Calculation :

=> 22 = 84/360 × 2 × 22/7 × r

=> r = 360 × 7/(84 × 2)

=> r = 15

Therefore The correct answer is 15.

Q66. Answer: (b) (√15-1)/4

Calculation :

sin θ cos θ = 2 cos3 θ-1/4 cos θ

=> $\sin\theta = 2\cos^2\theta - 1/4$

=> $\sin\theta = 2(1 - \sin^2\theta) - 1/4$

=> $\sin\theta = \{8(1 - \sin 2\theta) - 1\}/4$

=> $4\sin\theta = 8 - 8\sin^2\theta - 1$

=> $8\sin^2\theta + 4\sin\theta - 7 = 0$

=> $\sin\theta = \{- 4 + \sqrt{(4^2 + 4 \times 8 \times 7)}\}/16$

=> $(-4 + 4\sqrt{15})/16$

=> $(\sqrt{15} -1)/4$

Therefore The correct answer is $(\sqrt{15} -1)/4$.

Q67. Answer: (d) √2

Calculation :

=> $(\sin 45° + \cos 45°)$

=> $1/\sqrt{2} + 1/\sqrt{2}$

=> $2/\sqrt{2}$

=> $\sqrt{2}$

Therefore The correct answer is $\sqrt{2}$.

Q68. Answer: (a) 97.5 litres

Given :

Ratio of a chemical X and water is 15 : 9.

48 litres of this mixture is replaced with water, the ratio becomes 11 : 13.

Calculation :

48 liters of water is taken out in which chemical X is 30 and water is 18.

=> $15x - 30/(9x - 18 + 48) = 11/13$

=> $15x - 30/(9x + 30) = 11/13$

=> $195x - 390 = 99x + 330$

=> $96x = 720$

=> $x = 720/96 = 7.5$

Quantity of water after replacement = $9 \times 7.5 + 30 = 97.5$

Therefore The correct answer is 97.5.

Q69. Answer: (a) Rs. 216

Shortcut Trick

Ratio of investments = 1000 : 1200 : 1500 = 10 : 12 : 15.

Since the time period is identical, profit is distributed in the ratio of their investments.

Share of Q = [12 ÷ (10 + 12 + 15)] × Total Profit

Share of Q = (12 ÷ 37) × 666 = 12 × 18 = 216.

Therefore The correct answer is Rs. 216.

Alternate Method

Given:

Investment of P = Rs. 1000

Investment of Q = Rs. 1200

Investment of R = Rs. 1500

Total profit = Rs. 666

Formula Used:

When the investment time is the same for all partners, Profit Ratio = Capital Ratio.

Investment and Profit Share Ratio

P

10 parts

Rs. 1000

Q

12 parts

Rs. 1200

R

15 parts

Rs. 1500

Total Profit = Rs. 666 (37 parts)

Calculation:

=> Ratio of profits (P : Q : R) = 1000 : 1200 : 1500

=> Simplifying the ratio, we get 10 : 12 : 15

=> Sum of ratio parts = 10 + 12 + 15 = 37 parts

=> Value of 37 parts = Rs. 666

=> Value of 1 part = 666 ÷ 37 = Rs. 18

=> Profit share of Q = 12 parts

=> Share of Q = 12 × 18 = Rs. 216

Therefore The correct answer is Rs. 216.

Additional Information

Different Time Periods

If partners invest for different durations, their profit is shared in the ratio of the product of their Capital and Time (C1 × T1 : C2 × T2).

Working & Sleeping Partners

A working partner receives a fixed salary or a specific percentage of the total profit for managing the business. The remaining profit is distributed among all partners according to their investment ratios.

Compound Partnership

When a partner withdraws or adds money during the year, their capital is broken into time segments. The equivalent capital is calculated as (Amount1 × Months1) + (Amount2 × Months2).

Q70. Answer: (a) 69

Given:

a + b + c = 20

a2 +b2+c2 = 262

Formula used:

$(a + b + c)^2 = a^2 + b^2 + c^2 + 2\,ab + 2\,bc + 2\,ca$

$(a + b + c)^2 = a2 + b2 + c2 + 2(ab + bc + ca)$

Calculation:

As we know,

(a + b + c)2 = a2 + b2 + c2 + 2(ab + bc + ca)

=> $(20)^2 = 262 + 2(ab + bc + ca)$

=> 400 = 262 + 2(ab + bc + ca)

=>400 - 262 = 2(ab + bc + ca)

=>138 = 2(ab + bc + ca)

=>(ab + bc + ca) = 69

Therefore The value of (ab + bc + ca) is 69.

Q71. Answer: (d) 16 5/8

Calculation :

=> [13/3 + 10/3 × 9/5 × 4/15 × (3/2 + 4/3)]/[8/15]

=> [13/3 + 10 × 4/25 × (9 + 8/6)]/[8/15]

=> [13/3 + 40/25 × 17/6]/[8/15]

=> [13/3 + 136/30]/[8/15]

=> [130 + 136]/16

=> 16 5/8

Therefore The correct answer is 16 5/8.

Q72. Answer: (a) D

Calculation :

A = [(148 - 122)/122] × 100 = 21.31

B = [(166 - 135)/135] × 100 = 22.96

C = [(240 - 186)/186] × 100 = 29.03

D = [(220 - 170)/170] × 100 = 29.41

E = [(188 - 166)/166] × 100 = 13.25

Therefore The correct answer is D.

Q73. Answer: (c) 45 : 49

Given:

In a triangle STU, V is a point on side ST and W is a point on side SU such that VWUT is a trapezium

VW : TU = 2 : 7

Concept used:

Thales theorem (Basic Proportionality Theorem)

If a line is drawn parallel to one side of a triangle intersecting the other two sides in distinct points,

then the other two sides are divided in the same ratio.

AP/PB = AQ/QC

Note:

If APQ and ABC are similar then,

Area of APQ/ Area of ABC = $(PQ)^2 : (BC)^2$

and the side ratio will be,

PQ/BC = AP/AB = AQ/AC

Calculation:

According to question,

In the figure, VW : TU = 2 : 7

As we know, SVW and STU both are similar then

SV/ST = SW/SU = VW/ TU = 2 : 7

So, we can say

SV = 2 unit

ST = 7 unit

=>ST = SV + VT

=> 7 = 2 + VT

=> VT = 5 unit

According to Thales theorem,

=>SV : VT = SW : WU = 2 : 5

Ratio of area of SVW and area of STU will be,

Area of SVW : Area of STU = $(VW)^2 : (TU)^2$

=>Area of SVW : Area of STU = $2^2 : 7^2$

=>Area of SVW : Area of STU = 4 : 49

=>Area of SVW = 4 units

=>Area of STU = 49 units

So,

Area of STU = Area of SVW + Area of VWUT

=>Area of VWUT = Area of STU - Area of SVW

=>Area of VWUT = 49 - 4

=>Area of VWUT = 45 unit

So, the ratio of area of trapezium VWUT and area of triangle STU will be,

=> Area of VWUT : Area of STU = 45 : 49

Therefore The correct answer is 45:49.

YourMockTest.com — Free Study Material

Q74. Answer: (c) 3

Given :

v = 9 km/hr

Time Upstream = 2 × Downstream

Formula Used :

Speed in Downstream = v + u

Speed in Upstream = v - u

Calculation :

=> D/(v - u) = 2 × D/(v + u)

=> v + u = 2 × (v - u)

=> 9 + u = 2(9 - u)

=> 3u = 9

=> u = 3

Therefore The correct answer is 3.

Q75. Answer: (c) 3420 tonnes

Calculation :

=> 360° = 12960

=> 1° = 36

Annual Production of Maize = 95° × 36 = 3420

Therefore The correct answer is 3420 tonnes.

Q76. Answer: (a) additives

The correct answer is 'additives'.

Key Points

• The correct word to complete the sentence is "additives."

• "Additives" refer to substances that are added to food items during processing or production to enhance their flavor, appearance, texture, or shelf life. These substances can include preservatives, flavor enhancers, colorants, and stabilizers.

• They are used to improve the overall quality and characteristics of food products.

• Thus, the correct answer is Option 1.

Correct Sentence: My cousin owns a shop of food additives.

Q77. Answer: (c) have been given a pair

The correct answer is 'have been given a pair'.

Key Points

• The underlined part in the given sentence is grammatically incorrect.

• The most appropriate option to substitute the underlined segment in the sentence is: "have been given a pair."

• The subject "newly admitted students" is plural (students), so the correct verb form that agrees with the plural subject is "have been given."

• The verb "have been given" is in the present perfect tense, indicating an action that began in the past and is still relevant in the present.

• Therefore, "have been given a pair" correctly matches the plural subject in both tense and agreement.

Correct Sentence: The newly admitted students have been given a pair of uniforms by the management.

Q78. Answer: (a) you will go to

The correct answer is 'you will go to'.

Key Points

• The underlined part in the given sentence is grammatically incorrect.

• In the context of the question, "Are you sure you have go to drop her at the airport?" the most appropriate option among the provided choices is indeed "you will go to."

• While "you will go to" doesn't directly match the original sentence structure, it can be considered a suitable substitute to convey a future action (going to drop her at the airport). The original sentence structure appears to be incorrect, and among the options provided, "you will go to" is the closest in meaning to indicate a future action.

• Thus, the correct answer is Option 1.

YourMockTest.com — Free Study Material

Correct Sentence: Are you sure you will go to drop her at the airport?

Q79. Answer: (c) Scrutinise

The solution is in Hindi. Read it online.

Q80. Answer: (a) Gets in his teacher's hair

The correct answer is 'Gets in his teacher's hair'.

Key Points

• The most appropriate idiom for the underlined segment in the sentence is "gets in his teacher's hair."

• "Gets in his teacher's hair" means to cause trouble or annoyance to someone. In this context, it suggests that Rohit's mischievous behavior irritates or causes annoyance to his teachers.

Additional Information

• Let's look at the meaning of other words:

• "Puts his shoulders to the wheel": This idiom means to start working hard or putting effort into a task. It signifies dedication and hard work towards a particular goal or endeavor.

• "A storm in a tea cup": This idiom refers to a small issue or problem that is blown out of proportion, making it seem much more significant or serious than it actually is.

• "Leads up the garden path": This idiom means to deceive or mislead someone, often by giving them false hope or expectations, leading them into a situation that may not be as positive or truthful as it seems.

Q81. Answer: (d) building up inside her

The correct answer is 'building up inside her'.

Key Points

• The most appropriate option to substitute the underlined segment in the given sentence is: building up inside her.

• This phrase "building up" means that the anger is increasing or intensifying within Pooja.

• It effectively communicates the idea that her anger is growing stronger gradually. The phrase "building up" indicates a gradual accumulation or increase in intensity, which fits the context of the sentence describing the growing anger inside Pooja.

Correct Sentence: Pooja could feel the anger building up inside her.

Q82. Answer: (b) the cold day today

The correct answer is Option 2.

Key Points

• The definite article "the" is used for specific, known entities, or things previously mentioned.

• In the context of the given sentence, "the cold day today" implies a specific cold day that has already been mentioned, which is not the case.

• The indefinite article "a" is used for non-specific, singular countable nouns, indicating any instance of the thing being referred to.

• Therefore, the correct phrase should be "a cold day today."

• Thus, the grammatical error is in part 2 of the sentence.

Therefore, the correct answer is Option 2.

Correct Sentence: "Can you please pass me a sweater? It's going to be a cold day today."

Additional Information

• 1: "Can you please" – This part of the sentence is grammatically correct and does not require any changes.

• 3: "It's going to be" – This part of the sentence is grammatically correct and does not require any changes.

• 4: "pass me a sweater?" – This part of the sentence is grammatically correct and does not require any changes.

• No error – This would be the correct option if there were no mistakes in the sentence, but there is an error in part 2.

Q83. Answer: (b) at the moment

The correct answer is 'at the moment'.

Key Points

• The most appropriate option to substitute the underlined words in the sentence is: "at the moment."

• The phrase "at the moment" means "right now" or "currently." It signifies a specific point in time, indicating the present moment when the statement is being made. "At the moment" accurately describes the ongoing transition of the health-care system in the current timeframe.

• The other options ("at that moments," "at a moments," "at these moment") contain errors in grammar or use incorrect forms of expressions for describing the current timeframe, making "at the moment" the correct and most suitable choice.

YourMockTest.com – Free Study Material

Correct Sentence: The health-care system is in transition at the moment.

Q84. Answer: (c) BACED

The correct answer is 'BACED'.

Key Points

• The given question is an example of a Para Jumble.

• We know that the first statement of a para jumbled question is usually an independent general statement, a noun, a universal fact, starting of an incident, or it starts with 'most' or 'once'.

• The given sentence talks about the importance of collecting data on specific vulnerable population groups like migrants and persons with disabilities.

• The sequence BACED forms a coherent sentence by first introducing the essential action ("collecting data on vulnerable population groups") in part B.

• Then, it describes the specific groups involved (part A), emphasizes the crucial nature of this data collection in understanding and supporting these groups (part C), discusses the significance of this data in identifying challenges they face (part E), and finally highlights the purpose of understanding who is being left behind (part D).

• This sequence provides a logical flow, starting with the action, introducing the involved groups, emphasizing the importance, discussing the challenges they face, and concluding with the aim of understanding who is left behind.

• The arrangement follows a logical progression of ideas, ensuring coherence and clarity in expressing the significance of collecting data on vulnerable population groups.

• Thus, the correct answer is Option 3.

Correct Order: Collecting data on vulnerable population groups such as migrants and persons with disabilities is crucial in identifying the challenges they face and understanding who are being left behind.

Q85. Answer: (b) to walk in an angry or proud way

The correct answer is 'to walk in an angry or proud way'.

Key Points

• In the context of the sentence "They do not say anything but stalk furiously out of the room," the meaning of 'stalk' is: to walk in an angry or proud way.

• In this sentence, "stalk" is used figuratively to describe how someone is leaving a room in a furious manner, suggesting a combination of anger, pride, or agitation in their departure. It implies a strong, purposeful stride while displaying emotions like anger or pride.

• The word 'stalk' in this context is used to describe the manner of their exit rather than the physical act of searching for prey (as in definition 3), the main axis of a plant (as in definition 1), or recurring constantly and spontaneously (as in definition 4).

• Thus, the correct answer is Option 2.

Correct Answer: to walk in an angry or proud way.

Q86. Answer: (d) hiding

The solution is in Hindi. Read it online.

Q87. Answer: (b) The judge punishes the guilty.

The correct answer is 'The judge punishes the guilty.'

Key Points

• The given sentence is in Passive Voice. As per the question we have to change it into Active Voice.

• The structure of the given sentence is as follows:

• Subject + V1 + Object. (Active Voice)

• Subject (Objective Case) + is/am/are + V3 + Object (Subjective Case). (Passive Voice)

• Example:

• Aastha teaches English. (Active Voice)

• English is taught by Aastha. (Passive Voice)

• The subject of the given sentence is 'The guilty'.

• The object of the given sentence is 'the judge'.

• The subject will be put in place of the object and the object will be put in place of the subject.

• 'are punished' will be changed into 'punishes'.

Correct Sentence: The judge punishes the guilty.

Q88. Answer: (d) open a door?

The correct answer is 'open a door?'.

Key Points

• The given sentence is grammatically incorrect.

• Here, 'open the door?' should be used instead of 'open a door?'

• By using "open the door," it implies a specific door that the speaker wants the listener to open.

• It suggests that the speaker is referring to a particular door that they expect the listener to be aware of or to identify based on context.

• The use of "the" instead of "a" indicates a particular door that the speaker wants the listener to open, possibly one they both know about or one that is contextually relevant.

Correct Sentence: Can you please open the door? I can hear somebody knocking.

Q89. Answer: (d) turbulence

The solution is in Hindi. Read it online.

Q90. Answer: (d) A, C, B, D

The correct answer is 'A, C, B, D'.

Key Points

• The given question is an example of a Para Jumble.

• We know that the first statement of a para jumbled question is usually an independent general statement, a noun, a universal fact, starting off a story, starting of an incident or an event, or it starts with 'most' or 'once'.

• Let's see the correct arrangement:

• A. although many scholars believe that

• C. the painting depicts Lisa Gherardini, wife of the Florentine merchant Francesco del Giocondo,

• B. no records of such a commission from Francesco exist,

• D. and the sitter has never been conclusively identified

• This arrangement starts by introducing the belief held by scholars about the painting's subject (segment A). It then provides information about Lisa Gherardini and her relation to Francesco del Giocondo (segment C).

• Following this, it mentions the absence of any documented commission from Francesco for the painting (segment B). Lastly, it concludes by emphasizing the ongoing uncertainty surrounding the identification of the person depicted in the painting (segment D).

• This sequence presents a logical flow of information, discussing various aspects related to the artwork and the debate surrounding its subject and origins.

• Thus, the correct answer is Option 4.

Correct Order: Although many scholars believe that the painting depicts Lisa Gherardini, wife of the Florentine merchant Francesco del Giocondo, no records of such a commission from Francesco exist, and the sitter has never been conclusively identified.

Q91. Answer: (a) Controlled

The solution is in Hindi. Read it online.

Q92. Answer: (a) To his heart's content

The correct answer is 'To his heart's content'.

Key Points

• The most appropriate idiom for the underlined part is 'To his heart's content'.

• The idiom "to his heart's content" means doing something as much or as long as one desires or pleases. In the context of the sentence, it indicates that the child played the video game for as long as he desired or until he was fully satisfied.

• The other options do not fit the context:

• "To gild the pill" means to make something unpleasant seem more acceptable but doesn't convey the sense of doing something to one's satisfaction.

• "To kick the bucket" means to die or pass away and doesn't relate to the context of the child playing a video game.

• "To assume airs" means to pretend to have a more important or grander personality and doesn't relate to doing something to one's satisfaction.

• Thus, the correct answer is Option 1.

Correct Answer: To his heart's content.

YourMockTest.com — Free Study Material

Q93. Answer: (a) It is hoped that the match against Australia shall be won by us.

The correct answer is 'It is hoped that the match against Australia shall be won by us.'

Key Points

• The given sentence is in Active Voice. As per the given question, we have to change it into Passive Voice.

• The structure of the given sentence is as follows:

• The given sentence has two clauses.

• When a principle clause is followed by a noun clause as an object, the passive voice is made as follows:

• Principle clause + conjunction + noun clause. (Active Voice)

• It + is/am/are + verb + by + object + conjunction + noun clause. (Passive Voice)

• "It" is often used as a placeholder subject in passive voice constructions when the original subject isn't explicitly stated or when the focus is on the action rather than the doer of the action.

• In the provided sentence, "It is hoped by us that the match against Australia shall be won," "It" serves as a placeholder subject in the passive construction, allowing the sentence to emphasize the action of hoping for a victory in the match without focusing on who is doing the hoping.

• Example:

• We hope that Hansa will clear the exam.

• It is hoped that Hansa will clear the exam.

• Therefore, as per the points mentioned above, we find that the correct answer is Option 1.

Correct Sentence: It is hoped that the match against Australia shall be won by us.

Q94. Answer: (d) slow

The solution is in Hindi. Read it online.

Q95. Answer: (d) Propelled

The solution is in Hindi. Read it online.

Q96. Answer: (c) structures

The correct answer is 'structures'.

Key Points

• The most appropriate word to fill the blank in the sentence (1) is "structures."

• The sentence is discussing cultures that have not yet developed advanced technology or complex social systems.

• The word "structures" in this context refers to the organization or arrangement of social systems within these cultures.

• It implies the various components, arrangements, or systems that these cultures have in place to organize themselves socially, economically, and culturally.

• These could include social norms, traditions, customs, and community frameworks that define the functioning of their societies.

• Therefore, "structures" is the most suitable term here to describe the absence of complex social systems in these cultures that are considered "primitive."

Correct Passage: Primitive cultures are those that exist in societies that have not yet developed advanced technology or complex social structures These cultures are often characterised by their close relationship with the natural world. Despite being considered 'primitive', these cultures have a rich history and a unique way of life that is (2)_____ studying and preserving. These cultures often have a deep understanding of the environment and its cycles, and they have developed intricate systems of knowledge and belief that are closely tied to nature. For example, indigenous cultures in the Amazon rainforest have an (3)___ knowledge of the medicinal properties of plants and the cycles of the seasons, which they use to sustain themselves and their communities. Another important aspect is that these cultures often have complex systems of kinship and social hierarchy. Despite the many challenges that primitive cultures face, including the (4)____ of modern societies and environmental degradation, these cultures have an important role to play in our understanding of the human experience. They offer a different (5)_____ on the world and its complexities, and their traditions and knowledge have the potential to inform and enrich our modern lives.

Q97. Answer: (c) worth

The correct answer is 'worth'.

Key Points

• The most appropriate option to fill in blank 2 is: worth.

• The sentence states that despite being considered 'primitive', these cultures have a rich history and a unique way of life that is (2) worth studying and preserving.

• Here, "worth" implies that the unique and rich aspects of these cultures deserve to be studied and preserved.

• It signifies that their history and way of life possess value and importance, despite being labeled as 'primitive' by some.

• Let's see why other options are incorrect:

• important: This option could be seen as a suitable synonym, but "worth" better signifies the specific value of studying and preserving these cultures' unique aspects.

• insignificant: This option is the opposite in meaning to what the sentence suggests. The passage highlights the value and significance of studying these cultures, so "insignificant" contradicts the intended context.

• trivial: This word means unimportant or of little value, which doesn't align with the idea that the cultures have valuable aspects worth studying and preserving

Correct Passage: Primitive cultures are those that exist in societies that have not yet developed advanced technology or complex social structures These cultures are often characterised by their close relationship with the natural world. Despite being considered 'primitive', these cultures have a rich history and a unique way of life that is worth studying and preserving. These cultures often have a deep understanding of the environment and its cycles, and they have developed intricate systems of knowledge and belief that are closely tied to nature. For example, indigenous cultures in the Amazon rainforest have an (3)_____ knowledge of the medicinal properties of plants and the cycles of the seasons, which they use to sustain themselves and their communities. Another important aspect is that these cultures often have complex systems of kinship and social hierarchy. Despite the many challenges that primitive cultures face, including the (4)____ of modern societies and environmental degradation, these cultures have an important role to play in our understanding of the human experience. They offer a different (5)_____ on the world and its complexities, and their traditions and knowledge have the potential to inform and enrich our modern lives.

Q98. Answer: (b) intimate

The correct answer is 'intimate'.

Key Points

• The most appropriate option to fill in blank 3 is: intimate.

• In the context of the passage discussing indigenous cultures in the Amazon rainforest and their knowledge of medicinal plants and seasonal cycles, the word "intimate" best reflects a deep, detailed, and close understanding.

• It implies a profound and personal knowledge that is deeply connected to and closely associated with the environment.

• Let's see why other options are incorrect:

• acquired: This word generally refers to obtaining or gaining knowledge through learning or experience, but it doesn't convey the depth or closeness implied in the passage regarding the indigenous cultures' understanding of the environment.

• estimated: This word refers to making an approximate judgment or calculation, which doesn't fit the context of discussing the detailed knowledge possessed by these cultures about the environment.

• gained: While "gained" suggests acquiring knowledge, it lacks the nuanced implication of depth and closeness that "intimate" carries in describing the indigenous cultures' profound understanding of the natural world.

Correct Passage: Primitive cultures are those that exist in societies that have not yet developed advanced technology or complex social structures These cultures are often characterised by their close relationship with the natural world. Despite being considered 'primitive', these cultures have a rich history and a unique way of life that is worth studying and preserving. These cultures often have a deep understanding of the environment and its cycles, and they have developed intricate systems of knowledge and belief that are closely tied to nature. For example, indigenous cultures in the Amazon rainforest have an intimate knowledge of the medicinal properties of plants and the cycles of the seasons, which they use to sustain themselves and their communities. Another important aspect is that these cultures often have complex systems of kinship and social hierarchy. Despite the many challenges that primitive cultures face, including the (4)_____ of modern societies and environmental degradation, these cultures have an important role to play in our understanding of the human experience. They offer a different (5)_____ on the world and its complexities, and their traditions and knowledge have the potential to inform and enrich our modern lives.

Q99. Answer: (c) encroachment

The solution is in Hindi. Read it online.

Q100. Answer: (b) perspective

The correct answer is 'perspective'.

Key Points

• The most appropriate option to fill in blank 5 is: perspective.

• In this context, "perspective" refers to a particular way of regarding something or a viewpoint.

• Primitive cultures, despite their challenges, offer a different viewpoint or perspective on the world and its complexities. They bring unique insights and traditions that can enrich our understanding of human experience beyond what modern societies may offer.

• Let's see why other options are incorrect:

• conclusion: A conclusion is a judgment or decision reached after considering facts or evidence. However, in the context of the sentence, it doesn't reflect the idea of offering a different viewpoint.

• blame: "Blame" refers to assigning responsibility or fault for something negative, which doesn't fit the context of discussing the

valuable contributions of primitive cultures.

• biasness: The term "biasness" is not standard English; the correct form is "bias." However, "bias" implies prejudice or favoritism, which doesn't relate to the idea of offering a different viewpoint or perspective discussed in the passage.

Correct Passage: Primitive cultures are those that exist in societies that have not yet developed advanced technology or complex social structures These cultures are often characterised by their close relationship with the natural world. Despite being considered 'primitive', these cultures have a rich history and a unique way of life that is worth studying and preserving. These cultures often have a deep understanding of the environment and its cycles, and they have developed intricate systems of knowledge and belief that are closely tied to nature. For example, indigenous cultures in the Amazon rainforest have an intimate knowledge of the medicinal properties of plants and the cycles of the seasons, which they use to sustain themselves and their communities. Another important aspect is that these cultures often have complex systems of kinship and social hierarchy. Despite the many challenges that primitive cultures face, including the encroachment of modern societies and environmental degradation, these cultures have an important role to play in our understanding of the human experience. They offer a different perspective on the world and its complexities, and their traditions and knowledge have the potential to inform and enrich our modern lives.

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

YourMockTest.com — Free Study Material