

STAFF SELECTION COMMISSION

COMBINED GRADUATE LEVEL (TIER-I)

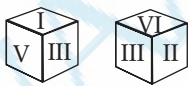
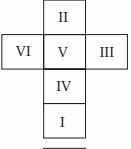
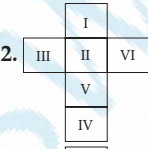
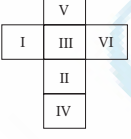
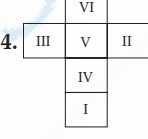
SOLVED PAPER

(13th April 2022: Shift-1)

Time Allotted: 1 hour

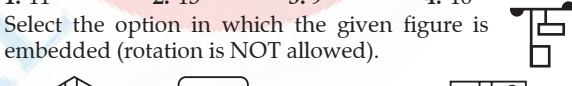




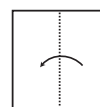
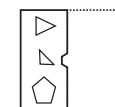
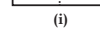
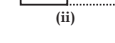
Max marks: 200

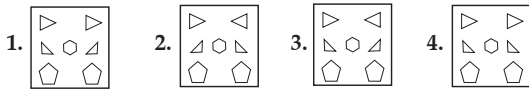
General Intelligence and Reasoning

- Select the number from the given options that can replace the question mark (?) in the following series.
24, ?, 52, 312, 320
1. 42 2. 35 3. 30 4. 48
- Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) the statements.
Statements:
All employees are tax payers.
Some employees are farmers.
Some farmers are doctors.
Conclusions:
I. No farmer is a tax payer.
II. Some farmers are tax payers.
1. Only conclusion II follows.
2. Only conclusion I follows.
3. Both conclusions follow.
4. Either conclusion I or II follows.
- Select the letter-cluster from the given options that can replace the question mark (?) in the following series.
ECDR, BGYW, YKTB, VOOG, ?, PWEQ
1. SSJL 2. RSIL 3. SRJL 4. SSKM
- Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.
1. BUMD 2. WPHY 3. MFXO 4. GZSH
- Two orientations of a dice are shown. This dice can be obtained by folding which of the option figures along the lines?

1.  2. 
3.  4. 
- Select the option that is related to the third term in the same way as the second term is related to the first term.
IVORY : ZWSPJ :: CREAM : ?
1. BQDZL 2. NFDQB 3. DSFCN 4. SNFDB
- Select the correct option that indicates the order of the given words as they would appear in an English dictionary.
1. magnetic 2. magnify 3. magnet
4. magical 5. majesty
1. 4, 3, 2, 1, 5 2. 4, 3, 1, 2, 5 3. 4, 1, 3, 2, 5 4. 3, 1, 4, 2, 5

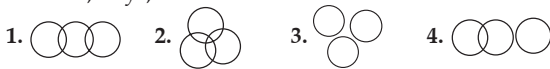
- Five friends, H, I, J, K and L, are top rank holders of a school. The rank of H is just above the rank of K and just below the rank of L. I is at the top rank and J is not at the lowest rank. Who among them is at the lowest rank?
1. M 2. L 3. K 4. J
- Which two signs should be interchanged to make the given equation correct?
 $28 + 14 \times 7 \div 5 - 18 = 20$
1. ÷ and + 2. ÷ and - 3. + and × 4. ÷ and ×
- Which two signs need to be interchanged to make the following equation correct?
 $72 \times 18 \div 9 + 19 - 39 = 16$
1. - and × 2. + and × 3. - and + 4. ÷ and ×
- In a certain code language, 'POTATO' is coded as 32-30-40-2-40-30 and 'TURNIP' is coded as 40-42-36-28-18-32. How will 'RADISH' be coded in that language?
1. 36-1-4-19-16 2. 18-2-4-19-18
3. 18-1-8-38-18 4. 36-2-8-38-16
- Study the given pattern carefully and select the number from the given options that can replace the question mark (?) in it.

15	81	12
18	99	15
17	120	?

1. 11 2. 13 3. 9 4. 16
- Select the option in which the given figure is embedded (rotation is NOT allowed).

1.  2.  3.  4. 
- In a class of 98 students, every student play atleast one of the three games — snooker, chess and tennis. 42 students play snooker, 49 play tennis, and 43 play chess. The total number of students who play only two games is 29. 5 students play all the three games. The number of students who play only snooker and chess is equal. 11 students play only snooker and tennis. 6 students play only snooker and chess. How many students play only tennis?
1. 21 2. 23 3. 20 4. 22
- In a certain code language, 'this is fact' is written as 'cuz duz ruz', 'fact is fictional' is written as 'guz ruz cuz', and 'doubt is clear' is written as 'cuz kuz buz'. How will 'this is fictional' be written in that language?
1. duz guz ruz 2. duz buz cuz
3. kuz guz ruz 4. duz guz cuz
- The sequence of folding a piece of paper (figure i) and the manner in which the folded paper has been cut (figure ii) is shown in the following figures. Select the option that would most closely resemble the unfolded form of figure (ii).
 
1.  2. 



17. Select the Venn diagram that best illustrates the relationship between the following classes.
Athletes, Boys, Students

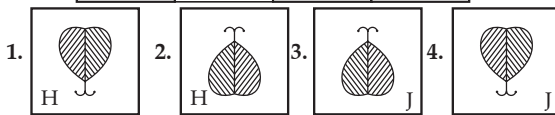
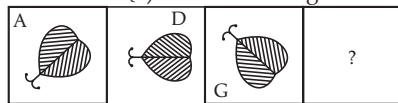


18. Select the option that is related to the third number in the same way as the second number is related to the first number.

27 : 576 :: 19 : ?

1. 328 2. 543 3. 256 4. 498

19. Select the figure from the given options that can replace the question mark (?) in the following series.



20. Pointing towards a woman, Reena said, "She is the only daughter of my father-in-law." How is the woman related to Reena?

1. Sister 2. Mother 3. Daughter 4. Sister-in-law

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

74, 74, 72, 24, ?, 4

1. 21 2. 20 3. 15 4. 9

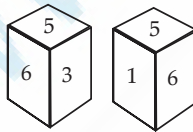
22. In a certain code language, 'FOREST' is written as 'GUSITU', and 'MANGROVE' is written as 'NEOHSUWI'. How will 'REINCARNATE' be written in that language?

1. SIOODESOEUI 2. SFOFDESQBUI
3. QIOQDESQBUI 4. SIOODESOEFF

23. Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.



24. Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the face having the number '3'.



1. 2 2. 1 3. 6 4. 4

25. Which letter will replace the question mark (?) in the following letter series?

E, J, N, Q, S, ?

1. T 2. V 3. U 4. S

General Awareness

26. Who among the following won P4 gold at the Al Ain 2021 Para Shooting World Cup in March 2021?

1. Manish Narwal 2. Singhraj Adhana
3. Rahul Jakhar 4. Deepender Singh

27. Acidic nature of soil is shown by high concentration of _____.

1. hydrogen 2. phosphorous
3. nitrogen 4. oxygen

28. Who among the following is the Director of 'The Nehru Centre' in London as of April 2021?

1. Amish Tripathi 2. Chetan Bhagat
3. Vikram Seth 4. Amitav Ghosh

29. In which of the following places the difference between day and night temperatures likely to be the highest?

1. Chilika Lake 2. Mount Everest
3. Thar Desert 4. Andaman and Nicobar Islands

30. The Minimum Support Price (MSP) for which of the following Rabi crops was increased by ₹50 per quintal over the previous year, in the marketing season 2021–22?

1. Barley 2. Gram 3. Safflower 4. Wheat

31. The rooftop of Guru Hemkund Sahib is in the shape of an upturned _____.

1. lotus 2. sunflower 3. rose 4. marigold

32. Which of the following Indian Acts was passed in the year 2005?

1. The Biological Diversity Act
2. The Prevention of Money-Laundering Act
3. The Competition Act
4. The Protection of Women from Domestic Violence Act

33. The _____ radiation belts are giant swaths of magnetically trapped highly energetic charged particles that surrounds Earth.

1. Van Allen 2. Aurora 3. Kuiper 4. Chinook

34. Madagascar is located in the _____ Ocean.

1. Pacific 2. Arctic 3. Indian 4. Atlantic

35. _____ received the 'Global Goalkeeper' Award by Bill and Melinda Gates Foundation for Swachh Bharat Abhiyan, on 24 September 2019.

1. Ramnath Kovind 2. Narendra Modi
3. Pranab Mukherjee 4. Manmohan Singh

36. Where in India is the 'slash and burn' agriculture known as 'Kuruwa'?

1. Western Ghats 2. Himalayan Belt
3. State of Odisha 4. State of Jharkhand

37. With a donation of ₹ 7,904 crore, _____ was declared the most generous philanthropist in India by the 'EdelGive Hurun India Philanthropy List 2020'.

1. Azim Premji 2. Kumar Mangalam Birla
3. Mukesh Ambani 4. Shiv Nadar

38. Which of the following events occurred first during the Indian National Movement?

1. Arrival of Simon Commission
2. Partition of Bengal
3. Kheda Satyagraha 4. Dandi March

39. The _____ Amendment of the Constitution of India envisages the Gram Sabha as the foundation of the Panchayat Raj System to perform functions and powers entrusted to it by the State Legislatures.

1. 71st 2. 72nd 3. 73rd 4. 74th

40. _____ is a vocal form of music from the state of Punjab.

1. Qawwali 2. Ghazal 3. Tappa 4. Bhajan

41. Dantidurga, who set up his capital at Malkhed was a _____ ruler.

1. Pala 2. Pratihara
3. Rashtrakuta 4. Satavahana

42. Badminton player _____ won the All England Open men's single title in March 2021.

1. Lee Chong Wei 2. Momota Kento
3. Viktor Axelsen 4. Lee Zii Jia

43. As per the Economic Survey 2020–2021, India's real GDP is estimated to grow by _____ in financial year 2021–22.

1. 3% 2. 11% 3. 7% 4. 9%
44. The range of _____ force is of the order of 10^{-16} m.
 1. electromagnetic 2. gravitational
 3. strong nuclear 4. weak nuclear
45. Which of the following Amendments to the Constitution of India was passed with the primary objective to constitutionally encode the re-organisation of Indian States based on language?
 1. Tenth Amendment 2. Sixth Amendment
 3. Seventh Amendment 4. Fourth Amendment
46. In the Rigvedas, there is a hymn in the form of a dialogue between Sage Vishvamitra and the two rivers that were worshipped as goddesses. Which are these rivers?
 1. Alakananda and Bhagrathi
 2. Ravi and Chenab 3. Ganga and Yamuna
 4. Beas and Sutlej
47. Who among the following was the first Dr Shanti Swarup Bhatnagar awardee?
 1. MN Saha 2. KS Krishnan
 3. CV Raman 4. S Chandrasekhar
48. The _____ aims to provide tap water connection to every rural home by 2024.
 1. Jal Kranti Abhiyan 2. Jal Shakti Abhiyan
 3. Atal Bhujal Yojana 4. Jal Jeevan Mission
49. As per Union Budget 2021–22, Fiscal deficit is estimated at _____ per cent of GDP in 2021–22.
 1. 5.1 2. 6.8 3. 7.6 4. 7.2
50. _____ refers to an environment in which oxygen is readily available.
 1. Anthropogenic 2. Anaerobic
 3. Aerobic 4. Acidification

Quantitative Aptitude

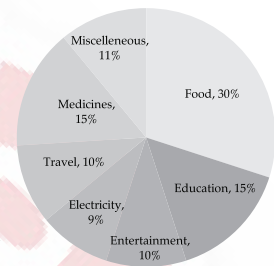
51. 13, a , b , c are four distinct numbers and the HCF of each pair of numbers (13, a); (13, b); (13, c) is 13, where a , b , c are each less than 60 and $a < b < c$. What is the value of $\frac{a+c}{b}$?
 1. 3.5 2. 2 3. 5 4. 4.5
52. A train covers a distance of 225 km in $2\frac{1}{2}$ hours with a uniform speed. The time taken, in hours, to cover a distance of 450 km with the same speed is:
 1. 5 2. 4 3. 3 4. 6
53. In $\triangle ABC$, D is a point on side BC such that $\angle ADC = \angle BAC$. If CA = 12 cm CD = 8 cm, then CB (in cm) = ?
 1. 18 2. 12 3. 15 4. 10
54. Find the value of the following expression:

$$\frac{\tan^3 45^\circ + 4 \cos^3 60^\circ}{2 \operatorname{cosec}^2 45^\circ - 3 \sec^2 30^\circ + \sin 30^\circ}$$

 1. $\frac{3}{4}$ 2. $1 + \sqrt{2}$ 3. $\frac{4}{3}$ 4. 3
55. A, B and C starts a business. A invests $33\frac{1}{3}\%$ of the total capital. B invests 25% of the remaining and C, the rest. If the total profit at the end of the year is ₹2,19,000, then A's share (in ₹) is:
 1. 65,000 2. 71,000 3. 73,000 4. 79,000
56. Chords AB and CD of a circle, when produced, meet at the point P. If AB = 6.3 cm, BP = 4.5 cm, and CD = 3.6 cm, then the length (in cm) of PD is:
 1. 4.8 cm 2. 3.5 cm 3. 3.1 cm 4. 5.4 cm
57. The average of five numbers is 30. If one number is excluded, the average becomes 31. What is the excluded number?
 1. 26 2. 24 3. 31 4. 30

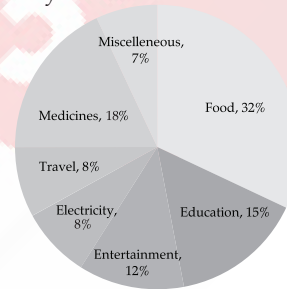
58. A cylindrical vessel of diameter 32 cm is partially filled with water. A solid metallic sphere of radius 12 cm is dropped into it. How much water level increases in the vessel (in cm)?
 1. 9 2. 72 3. 27 4. 2.25
59. If $5 \sin \theta - 4 \cos \theta = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\frac{5 \sin \theta + 2 \cos \theta}{5 \sin \theta + 3 \cos \theta}$ is:
 1. $\frac{4}{7}$ 2. $\frac{6}{7}$ 3. $\frac{2}{7}$ 4. $\frac{3}{7}$
60. If the length of a diagonal of a square is $(a + b)$, then the area of the square is:
 1. $a^2 + b^2$ 2. $\frac{1}{2}(a^2 + b^2) + ab$
 3. $a^2 + b^2 + 2ab$ 4. $\frac{1}{2}(a^2 + b^2)$

61. The given pie charts shows the monthly household expenditure of Family A and Family B under various heads. The monthly expenditures incurred for Family A and Family B are ₹50,000 and ₹75,000, respectively.



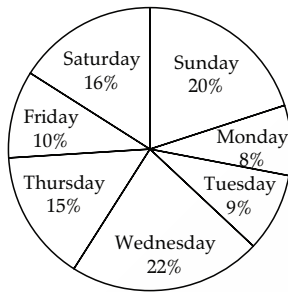
Study the charts carefully and answer the following question:

Monthly Household Expenditure of ₹50,000 under various heads of Family A
 Monthly household expenditure of ₹75,000 under various heads for Family B

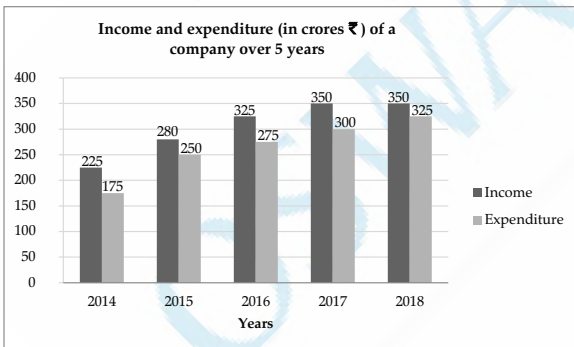


- If the monthly expenditures of both families are combined together, then. What will be the % of the expenditures on entertainment of both families together to the total monthly expenditures of both families? Express your answer to the nearest integer.
 1. 23% 2. 10% 3. 10% 4. 11%
62. If $x + y + z = 18$, $xyz = 81$ and $xy + yz + zx = 90$, then the value of $x^3 + y^3 + z^3 + xyz$ is:
 1. 1,321 2. 1,296 3. 1,225 4. 1,250
63. A tea seller use to make 50% of profit by selling tea at ₹9 per cup. When the cost of ingredients increased by 25%, he started selling tea at ₹10 per cup. What is his profit percentage now?
 1. $33\frac{2}{3}$ 2. 25 3. $33\frac{1}{3}$ 4. 30
64. If 4 men and 6 boys can do a work in 8 days and 6 men and 4 boys can do the same work in 7 days, then how many days will 5 men and 4 boys take to do the same work?
 1. 6 2. 8 3. 5 4. 7
65. A shopkeeper allows 28% discount on the marked price of an article and still makes a profit of 20%. If he gains ₹3,080 on the sale of one article, then what is the selling price (in ₹) of the article?
 1. 4,880 2. 18,480 3. 18,840 4. 10,884

66. What is the value of x , if $5\left(1 - \frac{x}{5}\right) - (5 - x) - \frac{1}{200}$ of $(20 - x) = 0.08$?
1. 36 2. 9 3. 18 4. 24
67. In a triangle ABC, D and E are points on BC such AD = AE and $\angle BAD = \angle CAE$. If $AB = (2p + 3)$, $BD = 2p$, $AC = (3q - 1)$ and $CE = q$, then find the value of $(p - q)$.
1. 3 2. 4.5 3. 3.6 4. 2
68. In a circle of diameter 20 cm, chords AB and CD are parallel to each other. BC is the diameter. If AB is 6 cm from the centre of the circle, what is the length (in cm) of the chord CD?
1. 8 2. 12 3. 20 4. 16
69. A kite flying at a height of 120 m is attached to a string which makes an angle of 60° at horizontal. What is the length (in m) of the string?
1. $90\sqrt{3}$ 2. $75\sqrt{3}$ 3. $84\sqrt{3}$ 4. $80\sqrt{3}$
70. The given pie chart represents the percentage-wise distribution of the total number of vanilla cakes and chocolate cakes sold every day. The total number of cakes sold in a week = 10,500. Study the pie chart and answer the question that follows. The ratio of vanilla cakes sold to chocolate cakes sold on Friday is 4:3. If the price of one vanilla cake is ₹9 and that of one chocolate cake is ₹10, then the total amount earned (in ₹) by selling all vanilla cakes and chocolate cakes on Friday is:



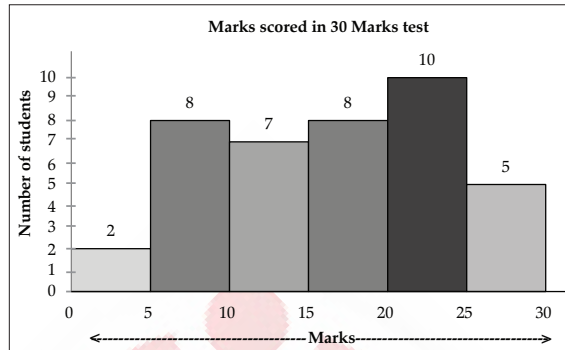
1. 8,900 2. 10,000 3. 9,900 4. 11,000
71. Simple interest on a certain sum is one-fourth of the sum and the interest rate percentage per annum is 4 times the number of years. If the rate of interest increases by 2%, then what will be the simple interest (in ₹) on ₹5,000 for 3 years?
1. 300 2. 1,500 3. 2,000 4. 1,800
72. The given bar graph shows the income and expenditure (in crores ₹) of a company over 5 years from 2014 to 2018. Study the bar graph and answer the question that follows.



- In which of the following years the ratio of expenditure to income is the minimum?
1. 2016 2. 2017 3. 2018 4. 2014
73. If the 9-digit number $7x79251y8$ is divisible by 36, what is the value of $(10x^2 - 3y^2)$ for the largest possible value of y ?
1. 490 2. 289 3. 192 4. 298
74. In a factory with 400 employees, the ratio of the number of male employees to that of female employees is 5:3. There are 87.5% regular employees in the factory. If 92%

of male employees are regular employees, then what is the percentage of regular female employees?

1. 80% 2. 78% 3. 87.5% 4. 85%
75. The following histogram shows the marks scored by 40 students in a test of 30 marks. A student has to score a minimum of 10 marks to pass the test. How many students have passed the test and obtained less than 50% marks?



1. 17 2. 7 3. 15 4. 10

English Comprehension

76. Select the option that expresses the given sentence in direct speech.
Manan said that he had no work to do that day.
1. Manan said, "I have no work to do today."
2. Manan said, "I have no work to do that day."
3. Manan said, "Have I no work to do today?"
4. Manan says, "I had no work to do that day."
77. Select the most appropriate synonym of the given word.
Lacuna
1. Misfortune 2. Languor 3. Apathy 4. Hiatus
78. Select the most appropriate antonym of the given word.
Ascent
1. Descent 2. Patent 3. Present 4. Resent
79. Select the most appropriate meaning of the given idiom.
Dark horse
1. An honest fellow 2. An unexpected winner
3. A mean person 4. A slow runner
80. Select the correct passive voice of the given sentence.
Preeti invited Ritu for a party.
1. Ritu is invited for a party by Preeti.
2. Ritu was invited for a party by Preeti.
3. Preeti has been invited for a party by Ritu.
4. Preeti was invited for a party by Ritu.
81. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
The old lady needed love and care beyond money.
1. besides 2. No substitution required
3. beside 4. beneath
82. Select the most appropriate antonym of the given word.
Clench
1. Tighten 2. Clasp 3. Hold 4. Relax
83. Select the option that expresses the given sentence in passive voice.
The Smiths have put up a huge Christmas tree.
1. A huge Christmas tree has been put up by the Smiths.
2. A huge Christmas tree is put up by the Smiths.
3. A huge Christmas tree is being put up by the Smiths.
4. A huge Christmas tree was put up by the Smiths.

84. The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options.
This question / is quite too / simple for me / to answer.
1. to answer 2. is quite too
3. This question 4. simple for me
85. Select the option that can be used as a one-word substitute for the given group of words.
Drawings or writing scribbled on walls in public places
1. Graffiti 2. Posters 3. Sketches 4. Hoardings
86. Select the most appropriate synonym of the given word.
Solemn
1. Dignified 2. Trivial 3. Excited 4. Frivolous
87. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
There is a very little time / for them to prepare / for the show.
1. for them to prepare 2. for the show
3. No error 4. There is a very little time
88. Select the most appropriate option to fill in the blank.
Harish's voice _____ in the empty rooms of their new house.
1. relapsed 2. reverted 3. resounded 4. resorted
89. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
If he wants / farther information, / send him / to me.
1. farther information 2. to me
3. If he wants 4. send him
90. Select the option that can be used as a one-word substitute for the given group of words.
Study of insects
1. Entomology 2. Geology
3. Ecology 4. Biology
91. Select the most appropriate meaning of the given idiom.
Stone's throw
1. Short distance 2. Large hurdle
3. Difficult problem 4. Hurt slightly
92. Select the INCORRECTLY spelt word.
1. Aisle 2. Adorn 3. Attick 4. Altar
93. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
I imagine you have learnt a valuable lesson from this experience, didn't you?
1. did you? 2. haven't you?
3. have you? 4. No substitution required
94. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Your eldest sister / lives in / a big city, / does she?
1. lives in 2. does she
3. a big city 4. Your eldest sister
95. Given below are four sentences which are jumbled. Pick the option that gives their correct order.
A. It is a park quite different from any other we have seen.
B. One difference is that it is made from nearly 250 tons of scrap.
C. Another difference is that it is powered by wind and solar energy.
D. A new park called Bharat Darshan Park has been thrown open to the public in New Delhi.
1. ACDB 2. DABC 3. BACD 4. DBCA

Comprehension:

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

If you thought that yoga was all about bending and twisting your body in odd shapes, it's time to rethink. Yoga is (1) _____ more. In very simple words, giving care (2) _____ your body, mind and breath is yoga. Derived (3) _____ the Sanskrit word 'yuj' which means 'to unite or integrate', yoga is (4) _____ 5,000-year-old Indian body of knowledge. Yoga is all about harmonising the body (5) _____ the mind and breath through means of various breathing exercises, yoga poses (asanas) and meditation.

96. Select the most appropriate option to fill in blank no. 1.
1. many 2. much 3. all 4. few
97. Select the most appropriate option to fill in blank no. 2.
1. on 2. to 3. at 4. for
98. Select the most appropriate option to fill in blank no. 3.
1. by 2. from 3. of 4. out
99. Select the most appropriate option to fill in blank no. 4.
1. one 2. a 3. the 4. an
100. Select the most appropriate option to fill in blank no. 5.
1. on 2. across 3. at 4. with

Answer Key

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

Answers with Explanations**General Intelligence and Reasoning****1. Option (4) is correct.**

Explanation: Given series is as follows:

24, ?, 52, 312, 320

$$24 \times 2 = 48$$

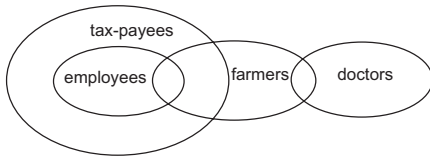
$$48 + 4 = 52$$

$$52 \times 6 = 312$$

$$312 + 8 = 320$$

2. Option (1) is correct.

Explanation:



(1) There is a relationship between farmers and taxpayers. Hence, no farmer is a taxpayer is wrong.

(2) Since all employees are tax-payers and some employees are farmers. Hence, some farmers are taxpayers.

Hence, only conclusion II follows.

3. Option (1) is correct.

Explanation:

Table of Alphabetical series (point to remember)

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14

E	C	D	R
5	3	4	18
↓ -3	↓ +4	↓ -5	↓ +5
B	G	Y	W
2	7	25	23
↓ -3	↓ +4	↓ -5	↓ +5
Y	K	T	B
25	11	20	2
↓ -3	↓ +4	↓ -5	↓ +5
V	O	O	G
22	15	15	7
↓ -3	↓ +4	↓ -5	↓ +5
S	S	J	L
19	19	10	12
↓ -3	↓ +4	↓ -5	↓ +5
P	W	E	Q
16	23	5	17

4. Option (4) is correct.

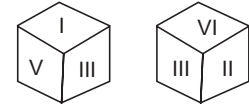
Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14

B	-7 gives	U	-8	M	-9	D
2		21		13		4
W	-7 gives	P	-8	H	-9	Y
23		16		8		25
M	-7 gives	F	-8	X	-9	O
13		6		24		15
G	-7 gives	Z	-8	S	-9	H
7		26		19		8

5. Option (3) is correct.

Explanation:



Find the common face in both the dice and move either in a clockwise or anticlockwise direction. From that face Dice 1 -----III-----V-----I----- (Alternate faces)-not opposite to each other.

Dice 2 -----III-----VI-----II----- (Alternate faces)-not opposite to each other.

So, I and VI-opposite faces,

II and IV-opposite faces,

III and IV opposite faces

6. Option (4) is correct.

Explanation:

Table of Alphabetical series (point to remember)

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14

Now, according to the question

I	V	O	R	Y
9	22	15	18	25

Arranging the above letters "I V O R Y" in decreasing order, we get "Y V R O I"

Y	V	R	O	I
25	22	18	15	9
↓ +1	↓ +1	↓ +1	↓ +1	↓ +1
26	23	19	16	10
Z	W	S	P	J

Similarly,

C	R	E	A	M
3	18	5	1	13

Arranging the above letters "C R E A M" in decreasing order we get "R M E C A"

R	M	E	C	A
18	13	5	3	1
↓ +1	↓ +1	↓ +1	↓ +1	↓ +1
S	N	F	D	B
19	14	6	4	2

7. Option (2) is correct.

Explanation:

Table of Alphabetical series (point to remember)

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14

Logic: Place value of letters in the alphabetical series Hence,

Magical	Magnet	Magnetic	Magnify	Majesty
---------	--------	----------	---------	---------

8. Option (3) is correct.

Explanation:

The rank of H is just above the rank of K and just below the rank of L.

L

H

K

I is at the top rank and J is not the at lowest rank.

I

J

L

H

K

9. Option (4) is correct.

Explanation: According to the BODMAS rule,

B	Bracket in order (), [], {}
O	Of
D	Division (÷)
M	Multiplication (×)
A	Addition (+)
S	Subtraction (-)

(1) ÷ and +

$$28 + 14 \times 7 \div 5 - 18 = 20$$

LHS,

$$\begin{aligned} &= 28 \div 14 \times 7 + 5 - 18 \\ &= 14 + 5 - 18 \\ &= 19 - 18 = 1 \neq 20 \end{aligned}$$

(2) ÷ and -

$$28 + 14 \times 7 \div 5 - 18 = 20$$

LHS,

$$\begin{aligned} &= 28 + 14 \times 7 - 5 \div 18 \\ &= 28 + 98 - 0.27 \\ &= 126 - 0.27 = 125.73 \neq 20 \end{aligned}$$

(3) + and ×

$$28 + 14 \times 7 \div 5 - 18 = 20$$

LHS,

$$\begin{aligned} &= 28 \times 14 + 7 \div 5 - 18 \\ &= 392 + 1.4 - 18 \\ &= 393.4 - 18 = 375.4 \neq 20 \end{aligned}$$

(4) ÷ and ×

$$28 + 14 \times 7 \div 5 - 18 = 20$$

LHS,

$$\begin{aligned} &= 28 + 14 \div 7 \times 5 - 18 \\ &= 28 + 2 \times 5 - 18 \\ &= 28 + 10 - 18 = 38 - 18 = 20 = \text{RHS} \end{aligned}$$

10. Option (4) is correct.

Explanation:

B	Bracket in order (), [], {}
O	Of
D	Division (÷)
M	Multiplication (×)
A	Addition (+)
S	Subtraction (-)

(1) - and ×

$$72 \times 18 \div 9 + 19 - 39 = 16$$

LHS,

$$= 72 \times 18 \div 9 + 19 - 39$$

$$= 72 - 2 + 19 \times 39$$

$$= 72 - 2 + 741$$

$$= 813 - 2 = 811 \neq 16 \neq \text{RHS}$$

(2) + and ×

$$72 \times 18 \div 9 + 19 - 39 = 16$$

LHS,

$$= 72 + 18 \div 9 \times 19 - 39$$

$$= 72 - 2 + 19 \times 39$$

$$= 72 + 38 - 39$$

$$= 110 - 39 = 71 \neq 16 \neq \text{RHS}$$

(3) - and +

$$72 \times 18 \div 9 + 19 - 39 = 16$$

LHS,

$$= 72 \times 18 \div 9 - 19 + 39$$

$$= 72 \times 2 - 19 + 39$$

$$= 144 - 19 + 39$$

$$= 183 - 19 = 164 \neq 16 \neq \text{RHS}$$

(4) ÷ and ×

$$72 \times 18 \div 9 + 19 - 39 = 16$$

LHS,

$$= 72 \div 18 \times 9 + 19 - 39$$

$$= 4 \times 9 + 19 - 39$$

$$= 36 + 19 - 39$$

$$= 55 - 39 = 16 = \text{RHS}$$

11. Option (4) is correct.

Explanation:

Table of Alphabetical series (point to remember)

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14

Logic: Twice of place value of letters

Hence,

P	O	T	A	T	O
16	15	20	1	20	15
↓×2	↓×2	↓×2	↓×2	↓×2	↓×2
32	30	40	2	40	30
T	U	R	N	I	P
20	21	18	14	9	16
↓×2	↓×2	↓×2	↓×2	↓×2	↓×2
40	42	36	28	18	32
R	A	D	I	S	H
18	1	4	9	19	8
↓×2	↓×2	↓×2	↓×2	↓×2	↓×2
36	2	8	18	38	16

12. Option (2) is correct.

Explanation: Given that:

$$15 \ 81 \ 12$$

$$18 \ 99 \ 15$$

$$17 \ 120 \ ?$$

The logic follows here:

$$(1^{\text{st}} \text{ number} + 3^{\text{rd}} \text{ number}) \times (1^{\text{st}} \text{ number} - 3^{\text{rd}} \text{ number}) = 2^{\text{nd}} \text{ number}$$

Row wise,
 Row 1 → $(15 + 12) \times (15 - 12) = 27 \times 3 = 81$
 Row 2 → $(18 + 15) \times (18 - 15) = 33 \times 3 = 99$,
 Similarly,
 This should be row

$$3 \rightarrow (17 + ?) \times (17 - ?) = 120$$

$$(? + 9) \times (? - 9) = 88$$

$$17^2 - ?^2 = 120$$

$$?^2 = 289 - 120$$

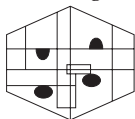
$$?^2 = 169$$

$$? = \sqrt{169}$$

$$= 13$$

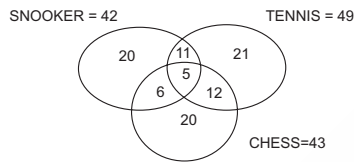
13. Option (1) is correct.

Explanation: Given that:
Logic: Go with the options one by one to find the embedded figure.



14. Option (1) is correct.

Explanation:

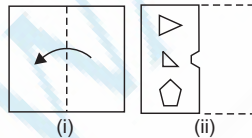
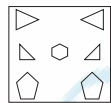


15. Option (4) is correct.

Explanation: Given that:
 this is fact = cuz duz ruz
 fact is fictional = guz ruz cuz
 doubt is clear = cuz kuz buz
 Find similar word and similar codes:
 Hence,
 is = cuz
 this = duz
 fact = ruz
 fictional = guz
 this is fictional = duz guz cuz

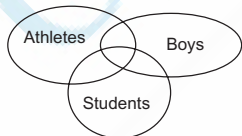
16. Option (3) is correct.

Explanation:
 Logic of symmetry will be followed here.



17. Option (2) is correct.

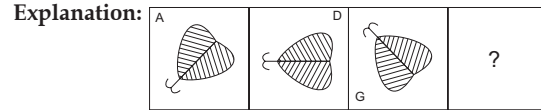
Explanation:



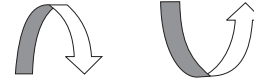
18. Option (3) is correct.

Explanation: $27 : 576 :: 19 : ?$
Logic: $(1^{\text{st}} \text{ number} - 3)^2 = 2^{\text{nd}} \text{ number}$
 $(27 - 3)^2 = 576$
 Similarly, $(19 - 3)^2 = 256$

19. Option (3) is correct.



The figure is rotated in 45-degree clockwise direction.

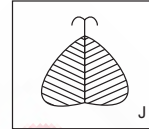


Clockwise

Anticlockwise

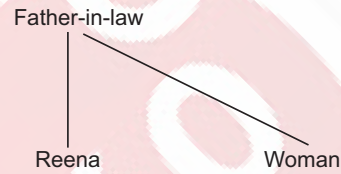
+ symbol for clockwise - symbol for anticlockwise

Hence,



20. Option (4) is correct.

Explanation:

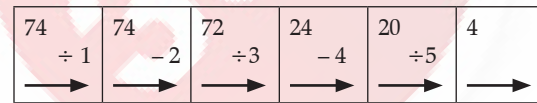


Therefore, woman is the sister-in-law of Reena

21. Option (2) is correct.

Explanation:

74, 74, 72, 24, ?, 4



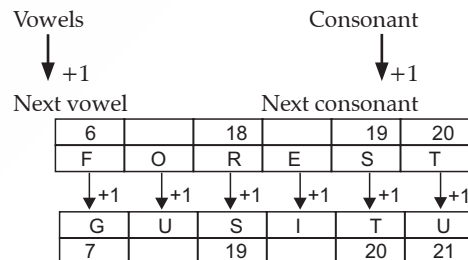
22. Option (1) is correct.

Explanation:

Table of Alphabetical series (point to remember)

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14

Logic:



Similarly,

R	E	I	N	C	A	R	N	A	T	E
18			14	3		18	14		20	
↓ +1	↓ +1	↓ +1	↓ +1	↓ +1	↓ +1	↓ +1	↓ +1	↓ +1	↓ +1	↓ +1
S	I	O	O	D	E	S	O	E	U	I
			15	4		19	15		21	

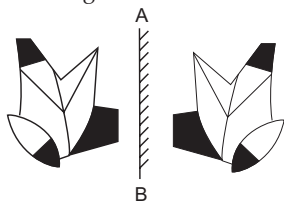
23. Option (2) is correct.

Explanation:

Table to remember: -

In the mirror image, left becomes right and right becomes left.

Now, the mirror image of



24. Option (2) is correct.

Explanation:

When 2 faces are common in 2 dice positions, then the 3rd face will be opposite to each other. When faces 5 and 6 are common in both dice.

Hence, 3 is opposite to 1.

25. Option (2) is correct.

Explanation:

Table of Alphabetical series (point to remember)

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14

E, J, N, Q, S, ?

E	+5 gives	J	+4	N	+3	Q	+2	S	+1	T
5		10		14		17		19		20

General Awareness

26. Option (1) is correct.

Manish Narwal won P4 gold at the Al Ain 2021 Para Shooting World Cup in March 2021. He is an Indian Para Pistol Shooter and was also awarded the Major Dhyan Chand Khel Ratna Award 2021. Dhyan Chand Khel Ratna Award is the highest sporting honour of India and is awarded annually by the Ministry of Youth affairs and sports. He is fourth in the world in the Men's 10m Air Pistol SH1 and is supported by GoSports Foundation.

Singhraj Adhana is an Indian Paralympian and shooter from Haryana.

Rahul Jakhar is an Indian Para pistol shooter.

Deepender Singh is an Indian para pistol sport shooter from Uttar Pradesh.

27. Option (1) is correct.

Acidic nature of soil is shown by high concentration of Hydrogen ions. The alkaline nature of soil is measured by the presence of Hydroxyl ions. Acidic soil tends to reduce the fertility of soil. Farmers need to decrease the acidity by adding lime into the soil. The maximum absorption of ions in the soil happens at the pH of 6.5 to 7 which is more towards a neutral nature of soil. Soil is the uppermost layer of land that provides nutrients and water to the plants. It is composed of organic matter, gases, liquid, micro-organisms and minerals. The organic matter decomposed by microorganism is known as humus.

28. Option (1) is correct.

Amish Tripathi is the Director of 'The Nehru Centre' in London as of April 2021. The Nehru Centre aims to promote cultural exchange between India and the United Kingdom.

It is regarded as a flagship cultural centre of the Indian Council for Cultural Relations (ICCR) abroad. The ICCR is an autonomous organisation of the Government of India which is headquartered in Delhi.

Amish Tripathi is best known for his Shiva Trilogy and Ram Chandra Series.

29. Option (3) is correct.

In Thar Desert, the difference between day and night temperatures is likely to be the highest.

The desert air is extremely dry and there is no water vapour in the air. Humidity content in the air works as a greenhouse to trap heat near to the earth's surface. The dry air and no proximity to water bodies leads to a dearth of humidity in that region. Thus, the heat received during the day gets lost at night leading to a high temperature difference between night and day.

Thar desert is also known as the Great Indian desert. It is an arid region that forms natural boundary between India and Pakistan. On the India side, most of the desert lies in Rajasthan, and some part lies in Gujarat, Punjab, and Haryana.

30. Option (4) is correct.

The Minimum Support Price (MSP) for wheat was increased by ₹ 50 per quintal over the previous year, in the marketing season 2021-22.

MSP is the minimum support price, which is announced by the government that pays to the farmers for their agricultural product, if the government buys the product. This price is set by the government twice a year and the Commission for Agricultural Costs and Prices (CACP) recommends the MSP of crops.

31. Option (1) is correct.

The rooftop of Guru Hemkund Sahib is in the shape of an upturned lotus. Gurudwara Hemkund Sahib is a place of worship for Sikhs and is in Chamoli district, Uttarakhand, India. The Gurudwara is devoted to the tenth Guru of Sikhs, Guru Gobind Singh.

32. Option (4) is correct.

The Protection of Women from Domestic Violence Act was passed in the year 2005. This act was brought into force by an act of Parliament. This act included physical, sexual, verbal and emotional, economic abuse in the ambit of Domestic violence. Under this act a Protection Officer is provided to the woman who has gone through any form of abuse. The Protection Officer assists the woman to avail the facilities provided by the government and the PO can be a government servant or social worker. This provides a temporary and emergency relief.

33. Option (1) is correct.

The Van Allen radiation belts are giant swaths of magnetically trapped highly energetic charged particles that surrounds Earth. These originate from solar winds and are in Earth's inner magnetic field. It mainly consists of electrons and protons and there are two such belts in Earth's Magnetosphere. These are named after James Van Allen and extend from an altitude of about 640 to 58,000 km. The magnetic field traps solar winds and thus deflecting the energy particles and protecting the atmosphere from destruction.

Aurora is the natural light display in Earth's sky and is commonly known as Polar light. These are seen in high altitude regions of Arctic and Antarctic and are caused due to disturbances in the magnetosphere caused by the solar wind. The two types of lights are aurora australis (southern lights) and aurora borealis (northern lights).

Chinook are the warm winds that blow down the eastern rocky slope of the Mountains of United States and Canada. These winds are a result of warm, moist air blowing from the Pacific Ocean in the northwest region of North America toward the Rocky Mountain range.

Kuiper is a donut shaped ring of icy objects around the Sun. This extends from orbit of Neptune to the orbit of Sun. It is named after Dutch astronomer Gerard Kuiper. This belt consists of dwarf planets and some of the Solar System's moons are considered to be originated in this region.

34. Option (3) is correct.

Madagascar is located in the Indian Ocean. It is the world's second largest island country after Indonesia. Its capital is Antananarivo and the official languages are Malagasy and French. It is situated on the South-eastern coast of Africa.

35. Option (2) is correct.

Narendra Modi received the 'Global Goalkeeper' Award by Bill and Melinda Gates Foundation (BMGF) for Swachh Bharat Abhiyan, on 24th September 2019. The Swachh Bharat Mission was launched on 2nd October 2014. The phase-I of the mission focussed on declaring villages, Gram Panchayats, Districts, States and Union Territories in India 'Open-Defecation Free' (ODF) by 2nd October 2019. In the year 2019, India celebrated the 150th anniversary of Mahatma Gandhi. The phase 2 is being implemented from 2020–21 and 2024–25. This initiative was led by Parameswaran Iyer and was done under rural and urban. The rural was financed and monitored through Ministry of Jal Shakti. The urban was overseen by the Ministry of Housing and Urban Affairs. BMGF is headquartered in Seattle, Washington DC, US and was founded by Bill Gates and Melinda French Gates.

36. Option (4) is correct.

The 'slash and burn' agriculture is known as 'Kuruwa' in the state of Jharkhand. It is a method of farming that involves cutting and burning of plants in a forest to create a field called Swidden. The cut vegetation is left to dry and then the biomass is burnt which results in a nutrient rich layer of ash that makes soil fertile. The cut vegetation is known as slash. It is known as Jhumming. The different names of 'slash and burn' agriculture are:

Bewar or Daily-Madhya Pradesh

Podu or Penda - Andhra Pradesh

Pama Dabi or Koman or Bringa- Odisha

37. Option (1) is correct.

With a donation of ₹ 7,904 crore, Azim Premji was declared the most generous philanthropist in India by the 'EdelGive Hurun India Philanthropy List 2020'. The second spot in the list was occupied by Shiv Nadar with an annual donation of ₹ 1,263 crore.

The third spot on the list was occupied by Reliance Industries Limited Chairman Mukesh Ambani and his family with an annual donation of ₹ 577 crore.

The fourth spot was occupied by Kumar Mangalam Birla and his family with a donation of ₹ 377 crores.

38. Option (2) is correct.

The first Partition of Bengal occurred happened on 16 October 1905. It was announced on 19th July 1905 by the then Viceroy of India- Lord Curzon. This was done as British considered Bengal as a large province to be singly administered. The partition led to the division into West and East Bengal, where West Bengal was a Hindu majority and East Bengal was a muslim majority region. The West Bengal, Odisha and Bihar were a part of Western region and the Eastern region included Assam and East Bengal. However, Hindus opposed the division while it was favoured by the Muslims.

This decision was reversed by King George V at Delhi Durbar on 12th December 1911.

39. Option (3) is correct.

The 73rd Amendment of the Constitution of India envisages the Gram Sabha as the foundation of the Panchayat Raj System

to perform functions and powers entrusted to it by the State Legislatures. This was enacted in the year 1992 to improve local self-governance. It led to the establishment of a three tier panchayati raj system at the village, intermediate, and district levels. This led to a uniformity in the system and there is a reservation for the SCs and STs as well. This amendment democratically decentralised authority and resources from the central government to the locally elected officials. This amendment created 11th schedule with 29 subjects which would come under the Panchayat's administration.

40. Option (3) is correct.

Tappa is a vocal form of music from the state of Punjab. It is a semi-classical vocal music that originated from the folk songs of the camel riders of Punjab. Tappa was developed as the classical music by Mian Ghulam Nabi Shori. He was a singer in the court of Nawab of Awadh.

Qawwali is a sufi style devotional music accompanied by drums and harmonium in the Islamic religion.

Ghazal is a form of poetry or ode originating in Arabic.

Bhajan is a devotional song with a religious theme or spiritual idea sung for Gods and deities.

41. Option (3) is correct.

Dantidurga, who set up his capital at Malkhed was a Rashtrakuta ruler. He is the founder of Rashtrakuta dynasty. Malkhed was originally known as Manyakehta and is situated in the present day Karnataka. He defeated the Chalukyas and earned the title of Rajadhiraja and Parameshvara.

Pala dynasty was founded by Gopala and they were staunch supporters of Mahayana Buddhism. They ruled from 8th to 12th century in the Indian states of Bengal and Bihar.

Pratihara dynasty was founded by the King Harichandra in Jodhpur (southwestern Rajasthan). They are known as Gurjara-Pratiharas and they ruled over the area of western India and the Upper Gangetic plains till the middle of the 10th century.

Satavahana dynasty was founded by Simuka and they ruled in Deccan and in Central India. They had two capitals at one time-Amaravati and Pratishthana (Paithan).

42. Option (4) is correct.

Badminton player Lee Zii Jia won the All England Open men's single title in March 2021. He is from Malaysia and defeated Japan's Nishimoto Kenta. All England Open men's single is the world's oldest Badminton tournament held annually in England.

Viktor Axelsen is a Danish badminton player.

Lee Chong Wei a Malaysian Badminton player.

Kento Momota is a Japanese badminton player.

43. Option (2) is correct.

As per Economic Survey 2020–2021, India's real GDP is estimated to grow by 11% in financial year 2021–22. GDP stands for Gross Domestic Product. It is the total value of the final goods and services produced within the geographical boundaries of a country. The real GDP is the most accurate indicator of country's economy as it takes into account the inflation and its effect. Real GDP takes into consideration the base year while calculating the inflation.

Nominal GDP is also known as Current Dollar GDP. It measures value of all the goods and services produced by an economy at current market prices in a Financial Year.

44. Option (4) is correct.

The range of weak nuclear force is of the order of 10–16. It appears only in certain processes such as radioactive decay and neutrino interactions. It causes beta decay where there is a conversion of neutron into proton, electron, and antineutrino. The other three fundamental forces of nature are

1. Strong force: It is very attractive and binds protons and neutrons inside the nucleus. This comes into picture

when the distance between nucleons is less than 10–15 m or 1 fermeter.

- Electromagnetic force acts over large distances and do not need a medium for the same. It causes electric and magnetic effects. It operates among the charged particles.
- Gravitational force is the weakest force and has infinite range. This force exists between two objects because of their masses.

45. Option (3) is correct.

The Seventh Amendment to the Constitution of India was passed with the primary objective to constitutionally encode the re-organisation of Indian States based on language. This led to the doing away with the classification of A, B, C, and D categories and introduced the Union Territories. It is known as State Reorganisation Act, 1956 officially and established 14 states and 5 centrally administered territories. The amendment allowed two or more states to have same governor as well.

The sixth amendment of the Constitution of India made way for taxes to be levied by the Central government on inter-state sales and purchase goods other than newspapers.

The tenth amendment of the Constitution of India amended the first schedule of Constitution. It incorporated Dadra and Nagar Haveli as the seventh Union Territory of India.

46. Option (4) is correct.

In the Rigvedas, there is a hymn in the form of a dialogue between Sage Vishvamitra and two rivers that were worshipped as goddesses are Beas and Sutlej. Rigvedas is one of the four sacred Hindu texts and it is the oldest known Vedic Sanskrit text.

Beas is a river in North India and rises in Himachal Pradesh and mouths into the Sutlej river in Punjab.

Sutlej river flows through Himachal Pradesh and Punjab in India. It is also known as Satadru. The Bhakra dam is built around the river.

Alaknanda and Bhagirathi rivers are the two headstreams of Ganges and they meet at Devprayag, in Tehri Garhwal District, Uttarakhand.

The Indus River system which is one of the three rivers of the Himalayan river systems, and it comprises of Jhelum, Chenab, Ravi, Beas, and Sutlej.

47. Option (2) is correct.

KS Krishnana was the first Dr Shanti Swarup Bhatnagar awardee in the year 1958. He was awarded for his work on Raman Scattering in the category of Physical sciences. He received this award along with CV Raman.

The Shanti Swarup Bhatnagar Prize for Science and Technology was constituted by the Council of Scientific and Industrial Research in honor of Shanti Swarup Bhatnagar in the year 1958. Shanti Swarup is referred as the father of research laboratories in India and was the first director general of CSIR.

S Chandrasekhar was an Indian-American theoretical physicist and was awarded Nobel Prize in Physics in the year 1983 for theoretical studies of the physical processes of importance to the structure and evolution of the star.

MN Saha was an Indian astrophysicist and developed Saha ionisation equation.

48. Option (4) is correct.

The Jal Jeevan Mission aims to provide tap water connection to every rural home by 2024. This mission was launched in the year 2019 and envisages supply of 55 litres of water per day and per person through Functional Household Tap Connections (FHTC). This is covered under the ambit of Jal Shakti ministry. Recently, a mobile application for the Jal Jeevan Mission was also launched. This mobile application will provide details of water infrastructure, an Aadhaar-

verified data set of beneficiaries, and water quality and contamination-related information for each village.

49. Option (2) is correct.

As per Union Budget 2021–22, Fiscal deficit is estimated at 6.8% per cent of GDP in 2021–22. Fiscal deficit is the condition in which the expenditure of the government supersedes the revenue in a financial year. It is calculated in absolute terms and as a percentage of country's Gross Domestic Product (GDP).

Fiscal deficit = Total revenue - total expenditure

Where Total revenue = Direct and indirect taxes levied by the Central government and non-taxable income from external grants, interest receipts, dividends and profits, receipts from Union Territories, among others.

Total expenditure = Payments of salaries, pensions, emoluments, creation of assets, funds for infra-structure, development, health and numerous other sectors.

In order to balance out the fiscal deficit, the government issues and sells bonds through banks.

50. Option (1) is correct.

Aerobic refers to an environment in which oxygen is readily available. Aerobic respiration is the cellular respiration that takes place in the presence of oxygen to produce energy from food.

Glucose + Oxygen = Carbon Dioxide + Water + Energy (ATP). ATP stands for Adenosine Tri Phosphate. This form of respiration takes place in all the multicellular organisms.

Anaerobic respiration takes place in the absence of oxygen and is performed by some bacteria and archaea. Fermentation by yeast is an example of anaerobic bacteria.

Anthropogenic are the activities that are produced or caused by humans. This word is usually used in a negative way.

Acidification is the reduction of pH over a prolonged period of time.

Quantitative Aptitude

51. Option (2) is correct.

Given numbers are 13, a , b , and c

a , b , c should be multiple of 13 as the HCF is 13 and these numbers are less than 60.

The HCF of 13 and $a = 13 \Rightarrow a = 26$

The HCF of 13 and $b = 13 \Rightarrow b = 39$

The HCF of 13 and $c = 13 \Rightarrow c = 52$

Here, $a < b < c < 60$

$$\text{Now, } \frac{a+c}{b} = \frac{26+52}{39} = 2$$

\therefore Value of $(a+c)/b$ is 2

52. Option (1) is correct.

We have, Speed = Distance/Time

$$\therefore \text{Speed of train} = \frac{225}{\frac{1}{2}} = \frac{225}{\frac{1}{2}} = 90 \text{ km/h}$$

$$\therefore \text{Time taken to cover 450 km} = \frac{450}{90} = 5 \text{ h}$$

53. Option (1) is correct.

As per the given, figure will be

$\angle ADC = \angle BAC$,
 $CD = 8 \text{ cm}$ and $AC = 12 \text{ cm}$

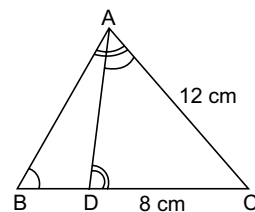
In $\triangle ABC$ and $\triangle ADC$,

$$\angle ACB = \angle ACD$$

$$\angle BAC = \angle ADC$$

$$\Rightarrow \angle ABC = \angle DAC$$

$$\text{So, } \triangle ABC \sim \triangle DAC$$



[AAA rule]

Then, $\frac{CB}{AC} = \frac{AC}{DC}$ (CPCT)

$$\Rightarrow \frac{CB}{12} = \frac{12}{8}$$

$$\Rightarrow CB = \frac{12 \times 12}{8} = 18 \text{ cm}$$

54. Option (4) is correct.

$$\frac{\tan^3 45^\circ + 4 \cos^3 60^\circ}{2 \operatorname{cosec}^2 45^\circ - 3 \sec^2 30^\circ + \sin 30^\circ}$$

$$= \frac{1^3 + 4 \times \left(\frac{1}{2}\right)^3}{2 \times (\sqrt{2})^2 - 3 \left(\frac{2}{\sqrt{3}}\right)^2 + \frac{1}{2}} = \frac{1 + \frac{4}{8}}{4 - 4 + \frac{1}{2}}$$

$$= \frac{\frac{3}{2}}{\frac{1}{2}} = 3$$

55. Option (3) is correct.

We know that ratio of investment is equal to the ratio of profit distribution.

A's investment = $33\frac{1}{3}\%$ of total investment

$$= \frac{100}{3}\% \text{ of total investment}$$

$$= \frac{1}{3} \text{ of total investment}$$

B's investment = $\left(1 - \frac{1}{3}\right) \times \frac{1}{4}$ of total investment

$$= \frac{1}{6} \text{ of total investment}$$

C's investment = $\left(1 - \frac{1}{3} - \frac{1}{6}\right)$ of total investment

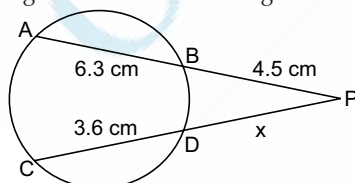
$$= \frac{1}{2} \text{ of total investment}$$

Ratio's of investment = $\frac{1}{3} : \frac{1}{6} : \frac{1}{2} = 2 : 1 : 3$

A's profit = $\frac{2}{2+1+3} \times 2,19,000 = ₹ 73,000$

56. Option (4) is correct.

Given that, BP = 4.5 cm, AB = 6.3 cm and CD = 3.6 cm
As per the given information the figure will be



Let, PD = x cm
We know, PB × PA = PD × PC
 $\Rightarrow PB \times (PB + BA) = PD \times (PD + DC)$
 $\Rightarrow 4.5 \times (4.5 + 6.3) = x \cdot (x + 3.6)$

$$\Rightarrow 4.5 \times 10.8 = x^2 + 3.6x$$

$$\Rightarrow 48.6 = x^2 + 3.6x$$

$$\Rightarrow 10x^2 + 36x - 486 = 0$$

$$\Rightarrow 5x^2 + 18x - 243 = 0$$

$$\Rightarrow x = \frac{-18 \pm \sqrt{18^2 - 4 \times 5 \times (-243)}}{2 \times 5} = \frac{-18 \pm 72}{10}$$

$$x = \frac{-18 - 72}{10} = -9$$

(not possible, since length cannot be negative)

Therefore, $x = \frac{-18 + 72}{10} = 5.4 \text{ cm}$

Therefore, PD = 5.4 cm

57. Option (1) is correct.

Let the five numbers are a, b, c, d and e.

According to question,

$$\Rightarrow \frac{a+b+c+d+e}{5} = 30$$

$$a + b + c + d + e = 150 \quad \dots(i)$$

Let the excluded value is a.

According to question,

$$\frac{b+c+d+e}{4} = 31$$

$$\Rightarrow b + c + d + e = 124$$

Put this value in equation (i)

$$a + 124 = 150$$

$$\Rightarrow a = 26$$

58. Option (1) is correct.

The radius of the solid metallic sphere = 12 cm

Diameter of the cylindrical vessel = 32 cm

The volume of a cylinder

$$= \pi \times (\text{Radius})^2 \times (\text{Height})$$

The volume of a sphere = $\left(\frac{4}{3}\right) \times \pi \times (\text{Radius})^3$

The radius of the cylindrical vessel = $\frac{32}{2} = 16 \text{ cm}$

Let, the height of water increase = x cm

So, $\pi \times (16)^2 \times x = \left(\frac{4}{3}\right) \times \pi \times (12)^3$

$$\Rightarrow x = \frac{2304}{256}$$

$$\Rightarrow x = 9$$

59. Option (2) is correct.

Given that: $5 \sin \theta - 4 \cos \theta = 0$

$$\Rightarrow 5 \sin \theta = 4 \cos \theta \quad \dots(i)$$

Now, $\frac{5 \sin \theta + 2 \cos \theta}{5 \sin \theta + 3 \cos \theta} = \frac{4 \cos \theta + 2 \cos \theta}{4 \cos \theta + 3 \cos \theta} = \frac{6}{7}$

60. Option (2) is correct.

Let side of square is x units

\therefore diagonal of square = $x\sqrt{2}$ units

According to question,

$$x\sqrt{2} = a + b$$

$$\Rightarrow x = \frac{a+b}{\sqrt{2}}$$

Now area of square = $\left(\frac{a+b}{\sqrt{2}}\right)^2 = \frac{(a+b)^2}{2}$

$$= \frac{a^2 + b^2 + 2ab}{2} = \frac{a^2 + b^2}{2} + ab$$

61. Option (4) is correct.

Monthly household expenditure of family A = 50,000

The total monthly Household Expenditure of family B = 75,000

The total expenditures on entertainment of both families

$$= \left[\left(\frac{10}{100}\right) \times 50,000\right] + \left[\left(\frac{12}{100}\right) \times 75,000\right]$$

$$= 5,000 + 9,000$$

$$= 14,000$$

The total monthly Household Expenditure of both families = 50,000 + 75,000 = 1,25,000

The percentage = $\left(\frac{14,000}{1,25,000}\right) \times 100$

$$= 11.2\% \approx 11\% \quad (\text{nearest integer})$$

62. Option (2) is correct.

$$x + y + z = 18$$

$$(x + y + z)^2 = 324 \quad [\text{Squaring both sides}]$$

$$x^2 + y^2 + z^2 + 2(xy + yz + zx) = 324$$

$$x^2 + y^2 + z^2 + 2 \times 90 = 324$$

$$x^2 + y^2 + z^2 = 324 - 180 = 144$$

Now, $x^3 + y^3 + z^3 - 3xyz$

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

$$\Rightarrow x^3 + y^3 + z^3 - 3xyz$$

$$= (x + y + z) \{x^2 + y^2 + z^2 - (xy + yz + zx)\}$$

$$\Rightarrow x^3 + y^3 + z^3 - (3 \times 81) = 18(144 - 90)$$

$$\Rightarrow x^3 + y^3 + z^3 - 243 = 18 \times 54 = 972$$

$$\Rightarrow x^3 + y^3 + z^3 = 972 + 243 = 1215$$

So, $x^3 + y^3 + z^3 + xyz = 1215 + 81 = 1296$

63. Option (3) is correct.

Initial profit = 50%

The initial selling price of a cup of tea = ₹ 9

The final selling price of a cup of tea = ₹ 10

We know that,

$$\text{C.P.} = \frac{100}{100 + \text{Profit}\%} \times \text{S.P.}$$

$$\text{Profit}\% = (\text{Profit}/\text{Cost price}) \times 100$$

$$\text{Initial C.P.} = \frac{100}{100 + 50} \times 9 = \frac{100}{150} \times 9 = 6$$

$$\text{Final C.P.} = 6 \times \frac{125}{100} = 7.5$$

The profit percentage

$$= \frac{10 - 7.5}{7.5} \times 100 = \left(\frac{2.5}{7.5}\right) \times 100 = 33\frac{1}{3}\%$$

The percentage of the tea seller is $33\frac{1}{3}\%$

64. Option (2) is correct.

4 men and 6 boys can do a work in 8 days

6 men and 4 boys can do the same work in 7 days

Let, M = Men; B = Boys

$$(4M + 6B) \times 8 = (6M + 4B) \times 7$$

$$\Rightarrow 32M + 48B = 42M + 28B$$

$$\Rightarrow 42M - 32M = 48B - 28B$$

$$\Rightarrow 10M = 20B$$

$$\Rightarrow \frac{M}{B} = \frac{2}{1}$$

So, the efficiency of one man = 2

Efficiency of one boy = 1

$$\text{Total work} = [(4 \times 2) + (6 \times 1)] \times 8 = 14 \times 8 = 112$$

Efficiency of 5 men and 4 boys

$$= (5 \times 2) + (4 \times 1) = 10 + 4 = 14$$

$$\text{Required time to finish the work} = \frac{112}{14} = 8 \text{ days}$$

65. Option (2) is correct.

Here, 20% = 3,080

$$\Rightarrow 100\% = 3,080 \times 5 = 15,400$$

Given profit = 3,080

$$\text{The selling price} = 15,400 + 3,080 = 18,480$$

The selling price of the article is ₹ 18,480

66. Option (1) is correct.

$$5\left(1 - \frac{x}{5}\right) - (5 - x) - \frac{1}{200} \text{ of } (20 - x) = 0.08$$

$$\Rightarrow 5\left(1 - \frac{x}{5}\right) - (5 - x) - \frac{1}{10} + \frac{x}{200} = \frac{8}{100}$$

$$\Rightarrow 5 - x - 5 + x - \frac{1}{10} + \frac{x}{200} = \frac{8}{100}$$

$$\Rightarrow \frac{x}{200} - \frac{1}{10} = \frac{8}{100}$$

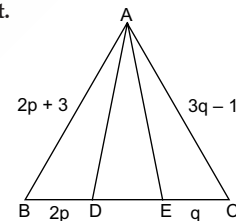
$$\Rightarrow \frac{x}{200} = \frac{8}{100} + \frac{1}{10}$$

$$\Rightarrow \frac{x}{200} = \frac{18}{100}$$

$$\Rightarrow \frac{x}{2} = 18$$

$$\Rightarrow x = 2 \times 18$$

$$\Rightarrow x = 36$$

67. Option (1) is correct.

In $\triangle ABD$ and $\triangle AEC$,

$$AD = AE \quad [\text{Given}]$$

$$\angle ADB = \angle AEC$$

[Exterior angles of $\triangle ADE$, where $\angle ADE = \angle AED$]

$$\angle BAD = \angle CAE \quad [\text{Given}]$$

So, $\triangle ABD \sim \triangle AEC$ [ASA similarity criterion]

$$\text{So, } \frac{AB}{AC} = \frac{BD}{CE} = \frac{AD}{AE} \quad (\text{CPCT})$$

$$\Rightarrow \frac{2p+3}{3q-1} = \frac{2p}{q} = 1 \quad [\text{Since, } AD = AE]$$

$$\Rightarrow 2p = q \quad \dots(1)$$

$$\begin{aligned} \Rightarrow 2p + 3 &= 3q - 1 \\ \Rightarrow 3q - 2p &= 3 + 1 \\ \Rightarrow 3q - q &= 4 \\ \Rightarrow 2q &= 4 \\ \Rightarrow q &= 4/2 = 2 \end{aligned}$$

Put $q = 2$ in the equation (1),

$$\begin{aligned} 2p &= 2 \\ \Rightarrow p &= 1 \end{aligned}$$

Now, $p + q = 1 + 2 = 3$

68. Option (4) is correct.

As per the given information, we can draw the following figure.

Diameter, $BC = 20$ cm and $PO = 6$ cm

$AB \parallel CD$ and AB and CD chords are connected to the two points of diameter BC

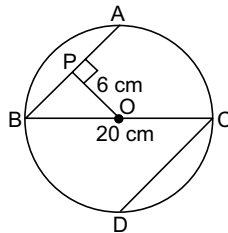
Then, $AB = CD$
 $OP \perp AB$

Radius (OB) = $\frac{20}{2} = 10$ cm

$$\text{So, } PB = \sqrt{10^2 - 6^2} = \sqrt{100 - 36} = \sqrt{64} = 8 \text{ cm}$$

Then, $AB = (PB + PA) = 8 + 8 = 16$ cm
 $CD = AB = 16$ cm

\therefore The length (in cm) of the chord CD is 16 cm



69. Option (4) is correct.

Height of the kite = 120 m

The angle is made by the string = 60°

As per the given information the figure is drawn.

The distance of kite from the ground (AB) = 120 m and $\angle ACB = 60^\circ$

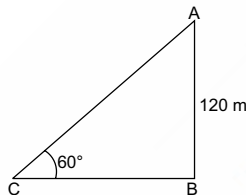
The length of the string = AC

$$\text{So, } \sin 60^\circ = \frac{AB}{AC}$$

$$\Rightarrow \frac{\sqrt{3}}{2} = \frac{120}{AC} \quad [\sin 60^\circ = 3/2]$$

$$\Rightarrow AC = (120 \times 2) / \sqrt{3} = 80\sqrt{3} \text{ m}$$

\therefore The length of the string is $80\sqrt{3}$ m



70. Option (3) is correct.

Price of one vanilla cake = ₹ 9

Price of one chocolate cake = ₹ 10

Total number of cakes sold in the week = 10,500

The total number of cakes sold on Friday

$$= \left(\frac{10}{100}\right) \times 10,500 = ₹ 1,050$$

The ratio of vanilla cakes sold to chocolate cakes sold on Friday = 4:3

The number of vanilla cake sold

$$= \left(\frac{4}{7}\right) \times 1,050 = ₹ 600$$

The number of chocolate cake sold

$$= 1,050 - 600 = ₹ 450$$

$$\begin{aligned} \text{The total sale} &= (600 \times 9) + (450 \times 10) \\ &= 5,400 + 4500 = ₹ 9,900 \end{aligned}$$

71. Option (4) is correct.

Let, Amount = 1 then simple interest = $1/4$

The rate of interest = R then, time = $\frac{R}{4}$

$$\text{Now, } \frac{1}{4} = \frac{1 \times R \times \left(\frac{R}{4}\right)}{100}$$

$$\Rightarrow \frac{1}{4} = \frac{R^2}{400}$$

$$\Rightarrow R^2 = 100$$

$$\Rightarrow R = \sqrt{100} = 10\%$$

The rate of interest = 10%

The new rate of interest = $10 + 2 = 12\%$

Total interest for 3 years = $3 \times 12 = 36\%$

\therefore The total simple interest

$$= \left(\frac{36}{100}\right) \times 5,000 = 1,800$$

\therefore The simple interest is ₹ 1,800

72. Option (4) is correct.

As per the given data,

$$\% \text{ of expenditure to income in 2014} = \left(\frac{175}{225}\right) = 0.77$$

$$\% \text{ of expenditure to income in 2015} = \left(\frac{250}{280}\right) = 0.89$$

$$\% \text{ of expenditure to income in 2016} = \left(\frac{275}{325}\right) = 0.84$$

$$\% \text{ of expenditure to income in 2017} = \left(\frac{300}{350}\right) = 0.86$$

$$\% \text{ of expenditure to income in 2018} = \left(\frac{325}{350}\right) = 0.93$$

\therefore The ratio of expenditure to income was the minimum in 2014

73. Option (4) is correct.

The given 9-digit number = $7x79251y8$

$y8$ needs to be divisible by 4

If $y = 8$ (largest value) then $y8 = 88$

Now, the number = $7x7925188 \rightarrow$ Divisible by 4

Here, $(7 + x + 7 + 9 + 2 + 5 + 1 + 8 + 8)$ be divisible by 9

$\Rightarrow (47 + x)$ be divisible by 9

Put $x = 7$

$\Rightarrow (47 + x) = 47 + 7 = 54$ (divisible by 9)

So, $x = 7; y = 8$

$$\begin{aligned} \text{Then, } (10x^2 - 3y^2) &= 10 \times (7)^2 - 3 \times (8)^2 = 10 \times 49 - 3 \times 64 \\ &= 490 - 192 = 298 \end{aligned}$$

74. Option (1) is correct.

Number of total employees = 400

% of regular employees = 87.5%

% of regular male employees = 92%

$$\text{Total number of regular employees} = \left(\frac{87.5}{100}\right) \times 400 = 350$$

Ratio of the number of male employees to that of female employees = 5:3

$$\text{The number of male employees} = \left(\frac{5}{8}\right) \times 400 = 250$$

$$\text{The number of female employees} = 400 - 250 = 150$$

The number of regular male employees

$$= \left(\frac{92}{100}\right) \times 250 = 230$$

The percentage of regular female employees

$$= \left[\frac{350 - 230}{150}\right] \times 100$$

$$= \left(\frac{120}{150}\right) \times 100 = 80\%$$

75. Option (2) is correct.

Total marks of the test = 30

Minimum pass marks = 10

$$50\% \text{ of the total marks} = \left(\frac{50}{100}\right) \times 30 = 15$$

Total number of students who scored between 10 and 15 = 7

Therefore, a total number of 7 students have passed the test and obtained less than 50% marks.

English Comprehension

76. Option (1) is correct.

Reporting the message of the speaker in the exact words spoken by him is known as "direct speech." Reporting the message of the speaker in our own words is known as "indirect speech." The given sentence is in indirect speech. The correct conversion of the given sentence is given in option (1).

77. Option (4) is correct.

The given sentence tests a student's vocabulary. "Lacuna" means an unfilled space; a gap. Example: "The journal has filled a lacuna in Middle Eastern studies." "Languor" means tiredness or inactivity, especially when pleasurable. Example: "Her whole being was pervaded by a dreamy languor." "Apathy" means lack of feeling or emotion, impassiveness. Example: "There is a growing sense of apathy among teens and a feeling that there are no opportunities," he said. "Hiatus" means a short pause in which nothing happens or said, or a space where something is missing. The synonym of "lacuna" is "hiatus."

78. Option (1) is correct.

The given sentence tests a student's vocabulary. "Ascent" means a climb or walk to the summit, an upward slope or path that one may walk or climb. Example: "The first ascent of the Matterhorn." "Descent" means "moving downwards, sloping downwards." The antonym of "ascent" is "descent." Hence, the correct answer is option (1). "Patent" means a government authority or licence conferring a right or title for a set period, especially the sole right to exclude others from making, using, or selling an invention. "Resent" means to feel bitterness or indignation (at a circumstance, action, or person).

79. Option (2) is correct.

The given sentence tests a student's vocabulary and idiomatic expression. "Dark horse" refers to a candidate or competitor about whom little is known but who unexpectedly wins or succeeds. Example: "A Gloucester side that could be a dark horse for the title."

80. Option (2) is correct.

In the active voice, the sentence's subject performs the action. It is used to direct the reader's attention to the subject of a

sentence. In the passive voice, the action's target is the focus, and the verb acts upon the subject. To convert active voice into passive voice, students need to identify the (S+V+O) subject, verb, and object in the active sentence. The given sentence is in the active voice. Hence, the passive form of the given sentence should be "Ritu was invited to a party by Preeti."

81. Option (1) is correct.

The sentence intends to express that the lady wants money along with love and care. The word underlined is "beyond," which means "past, after, or far off." This gives the impression that the lady wants money after receiving love and care. Thus, it creates an incorrect connotation. The correct usage will be "besides," which means "in addition to."

82. Option (4) is correct.

This question tests your vocabulary. "Clench" means "close into a tight ball, especially as a manifestation of extreme anger." Example: "She clenched her fists, struggling for control." "Ian's right hand clenched into a fist." Tighten, clasp, and hold are close meanings of the word "clench." The antonym of "clench" is "relax."

83. Option (1) is correct.

In the active voice, the sentence's subject performs the action. It is used to direct the reader's attention to the subject of a sentence. In the passive voice, the action's target is the focus, and the verb acts upon the subject. To convert the voice, students need to identify the (S+V+O) subject, verb, and object in the passive sentence to convert to the active voice or vice versa.

Active: Subject + has/have + III rd form of verb + object.

Passive: Object + has/have + been + verb (III rd form) + by + subject

84. Option (2) is correct.

The question has an error of redundancy. The given phrase states, "quite too simpler." "Quite" means "to a certain or fairly significant extent or degree." And "too" also means "to a higher degree than is desirable, permissible." Hence, using both words together is unnecessary.

85. Option (1) is correct.

The question tests a student's vocabulary. Graffiti is defined as "drawings or writing scribbled on public walls." Hence, the correct answer is option (1). A poster is a large printed picture, photograph, or notice that you stick or pin to a wall or board. Sketches are rough or unfinished drawings or paintings, often made to assist in making a more finished picture. Hoardings are large boards in public places used to display advertisements.

86. Option (1) is correct.

The question tests a student's vocabulary. Solemn means formal and dignified. Example: He spoke in a solemn voice. The synonym of "solemn" is "dignified." Hence, the correct answer is option (1). Trivial and frivolous are the antonyms of solemn.

87. Option (4) is correct.

The sentence has an error in word usage. "We have little time." This means we do not have much time. It emphasises the fact that we have only a small amount of time.

"We have a little time." This means we do not have any time. It emphasises the fact that we have some time; we are not entirely out of time yet. The given sentence wants to say that they were not left with much time. Hence, the correct usage would be "very little time."

88. Option (3) is correct.

The given sentence gives information about Harish's sound in an empty house. Sound will reverberate in an empty space. The word that is a synonym of "echo" will be the best fit in the given blank. Hence, the correct answer is "resounded."

89. Option (1) is correct.

The given statement has an error in word usage. The sentence incorrectly uses "farther" in place of "further." Farther means "far than something." It indicates distance. "Further" means in addition to. The sentence intends to say that if he wants further information, he should contact me.

90. Option (1) is correct.

This question tests a student's vocabulary. The study of insects is called "entomology." Geology is the science that deals with the earth's physical structure and substance, its history, and the processes that act on it. Ecology is the branch of biology that studies organisms' interactions with one another and with their physical surroundings. Biology is the study of living organisms.

91. Option (1) is correct.

This question tests a student's knowledge of idiomatic expression. "A stone's throw" means a very short distance. Example: The apartment is just a stone's throw from the sea.

92. Option (3) is correct.

The incorrectly spelled word is "attick." It should be "attack." "Aisle" means a passage between rows of seats in a building such as a church or theatre, an aircraft, or a train. Adorn means to make more beautiful or attractive. Altar means a table or flat-topped block used as the focus for a religious ritual, especially for making sacrifices or offerings to a deity.

93. Option (2) is correct.

Tag questions (or question tags) turn a statement into a question. They are often used for checking information that we think is true. Usually, if the main clause is positive, the question tag is negative, and if the main clause is negative, the question tag is positive. If the main clause has an auxiliary verb in it, we use the same verb in the tag question. If there is no auxiliary verb (in the present simple and past simple), use do / does, / did. In the given question, the correct question tag will be "haven't you?"

94. Option (2) is correct.

Tag questions (or question tags) turn a statement into a question. They are often used for checking information that

we think is true. Usually, if the main clause is positive, the question tag is negative, and if the main clause is negative, the question tag is positive. If the main clause has an auxiliary verb in it, we use the same verb in the tag question. If there is no auxiliary verb (in the present simple and past simple), use do / does, / did. In the given question, the correct question tag will be "doesn't she?"

95. Option (2) is correct.

The paragraph is about a new park. The subject is introduced in the statement (D) so, it is the obvious opener. (D) will be followed by (A) because (A) gives further information about the park. There is only one option that starts with DA, that is option (2).

96. Option (2) is correct.

The paragraph is about "yoga." The first sentence says that yoga is not only about bending and twisting your body. The next sentence will say, it is much more. Hence, the word that best fits in the blank is "much."

97. Option (2) is correct.

The blank needs a preposition. The apt preposition in the given context is "to."

98. Option (2) is correct.

The sentence talks about the origin of the word "yoga." The correct expression is "derived from."

99. Option (2) is correct.

The blank is followed by a countable noun; thus, in the blank, you need to fill in an article. The article that is suitable is "a," because when you refer to an indefinite singular noun, you use "a or an." "An" is used before vowel sounds, and "a" is used before consonant sounds. Here, the noun starts with a consonant sound.

100. Option (4) is correct.

The correct preposition in the given context is "with," because the sentence says that yoga is about connecting body and soul.

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