STAFF SELECTION COMMISSION

COMBINED HIGHER SECONDARY LEVEL (TIER-I)

SOLVED PAPER

(1st July 2024: Shift-1)

Time Allotted- 1 hour **Max marks-** 200

Important Instructions:-

⇨ This paper contains 100 questions which are divided into 4 sections and each section contains 25 questions.
- ✓ English Language (Basic Knowledge)
- ✓ General Intelligence
- ✓ Quantitative Aptitude (Basic Arithmetic Skill)
- ✓ General Awareness

⇨ There will be 2 marks for each correct answer and also there will be negative marking of 0.50 marks for each wrong answer.
⇨ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

English Language

1. The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.
Passengers started behaving / violent when / they were asked / to leave the bus station.
1. to leave the bus station.
2. Passengers started behaving
3. violent when
4. they were asked

2. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The couple / preferred to walk / until the last house / of the town.
1. The couple **2.** preferred to walk
3. of the town **4.** until the last house

3. Select the sentence in the future tense.
1. I will be twenty five next Sunday.
2. I have been twenty five next Sunday.
3. I should be twenty five next Sunday.
4. I could be twenty five next Sunday.

4. The underlined phrase in the given sentence has been used incorrectly. Select the option that can correctly replace the underlined segment.
I am <u>down with</u> her complaints.
1. passed out with **2.** fed up with
3. held down with **4.** looked down with

Directions (Qs. 5 to 9): In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As Paul was **(1)**_____ his supper, Aunt Jenny **(2)**_____ him questions that were full of deceit and had a very deep meaning, for she wanted to trap him. It seemed as if she was endowed with a **(3)**_____ which could hunt for dark and mysterious tact.
She asked, "Did you now not want to swim, Paul?" Paul felt an uncomfortable **(4)**_____. He **(5)**_____ Aunt Jenny's face; however, it informed him of nothing. So, he said, "No, ma'am."

5. Select the most appropriate option to fill in blank no. 1.
1. eating **2.** churning **3.** feeding **4.** grazing

6. Select the most appropriate option to fill in blank no. 2.
1. demanded **2.** allowed **3.** submitted **4.** asked

7. Select the most appropriate option to fill in blank no. 3.
1. technique **2.** purpose **3.** talent **4.** weakness

8. Select the most appropriate option to fill in blank no. 4.
1. drop **2.** suspicion **3.** view **4.** guess

9. Select the most appropriate option to fill in blank no. 5.
1. chased **2.** ruffled **3.** searched **4.** pursued

10. Select the most appropriate option that can substitute the underlined segment in the given sentence.
<u>This is best book</u> for children to read.
1. This is the best book **2.** This is good book
3. This is very good book **4.** This is very best book

11. Select the most appropriate meaning of the underlined idiom.
The realtors of the new venture <u>sold plots like hot cakes</u>.
1. Sold innovatively
2. Sold quickly and in large numbers
3. Sold illegally
4. Sold with great difficulty

12. Select the most appropriate meaning of the given idiom.
Black and white
1. In dispute **2.** A false invention
3. In writing **4.** Doubtful

13. Select the most appropriate ANTONYM of the given word.
Glory
1. Shame **2.** Honour **3.** Delight **4.** Gluttony

14. Select the most appropriate option that can substitute the underlined segment in the given sentence.
The skunk had a <u>conspicuous</u> spinal stripe.
1. obscure **2.** charming **3.** noticeable **4.** faint

15. Select the most appropriate ANTONYM of the underlined word.
Would you please <u>support</u> me for once in your life?
1. establish **2.** refute **3.** document **4.** disclaim

16. Select the most appropriate ANTONYM of the given word .
Trivial
1. Vain **2.** Essential **3.** Liable **4.** Lavish

17. Select the INCORRECTLY spelt word.
1. Encraoch **2.** Delegate **3.** Illusion **4.** Obtain

18. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Rahul had strong pain in his stomach.

1. severe **2.** high **3.** deep **4.** strict

19. Select the most appropriate ANTONYM of the underlined word in the given sentence.

How can you be so joyless on hearing the news?

1. Beaming **2.** Rapt **3.** Blissful **4.** Dubious

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

In both countries, we have leaders of_____ ability.

1. powerful **2.** almighty

3. compelling **4.** exceptional

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

I begged him / to reconcider / the decision but / he refused to yield.

1. the decision but **2.** I begged him

3. he refused to yield. **4.** to reconcider

22. Select the most appropriate option that can substitute the underlined words in the given sentence.

It is a general belief that the female ostrich guard the nest at night.

1. guarded the nest at night **2.** guards the nest at night

3. does guard the nest in night **4.** is guarding the nest at night

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

Yesterday, I ate only a _____ of apples for my dinner.

1. pair **2.** pier **3.** pare **4.** pear

24. Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.

The documentary explored the historical and cultural significance of the _____ (antique) ruins in the region.

1. obsolete **2.** contemporary

3. modern **4.** ancient

25. 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'.

The little boy cried with pain when he burnt his fingers.

1. No substitution required **2.** when he burns his fingers

3. while he burn his fingers **4.** as he burning his fingers

General Intelligence

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

(**NOTE:** Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. For example, 13 – operations on 13 such as adding, deleting, multiplying, etc., can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

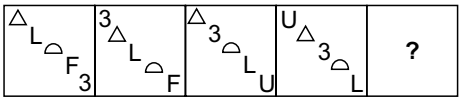
(10, 5, 20)

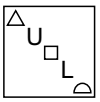
(14, 7, 28)

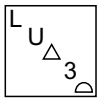
1. (48, 24, 58) **2.** (33, 11, 44)

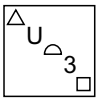
3. (22, 11, 44) **4.** (54, 18, 72)

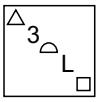
27. Identify the figure given in the options that, when put in place of the question mark (?), will logically complete the series.



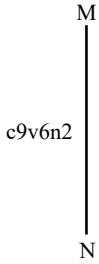
1. 

2. 

3. 

4. 

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



1. ϛɑɘvϱɔ **2.** ƸuϑʌϬɔ **3.** c9v6n2 **4.** ɔϑʌϱuƧ

29. Select the combination of letters that, when sequentially placed in the blanks of the given series, will logically complete the series.

A _ A _ C A B _ B _ A _ _ B C A B A _ C

1. BBACABB **2.** BBABBCB

3. BBACBAB **4.** BABACBA

30. LBXF is related to SYCM in a certain way based on the English alphabetical order. In the same way, TGFY is related to AGHF. To which of the following is ZDMK related, following the same logic?

1. GRNE **2.** GREN **3.** GNER **4.** GNRE

31. If 'U' stands for '÷', 'D' stands for '×', 'B' stands for '+' and 'T' stands for '–', what will come in place of the question mark (?) in the following equation?

13 T 26 U 13 D 24 B 7 = ?

1. –56 **2.** –87 **3.** –43 **4.** –28

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

129, 128, 124, 115, 99, ?

1. 73 **2.** 71 **3.** 74 **4.** 72

33. The position of how many letters will remain unchanged if each of the letters in the word 'VIRTUAL' is arranged in English alphabetical order?

1. None **2.** One

3. Three **4.** More than three

34. Which two numbers should be interchanged to make the given equation correct?

74 – 52 + (39 ÷ 13) × 16 + (14 ÷ 2) = 106

(**NOTE:** Numbers must be interchanged and not the constituent digits, e.g., if 2 and 3 are to be interchanged in the equation 43 × 3 + 4 ÷ 2, then the interchanged equation is 43 × 2 + 4 ÷ 3)

1. 52 and 39 **2.** 74 and 52 **3.** 14 and 52 **4.** 14 and 16

35. If the year is NOT a leap year, then how are the last day of the year and the first day of the same year related?

1. First day is Sunday, last day is Friday

2. First day is Sunday, last day is Saturday

3. First day is Tuesday, last day is Saturday

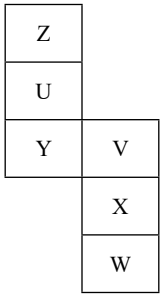
4. They are the same.

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

FNV LUE ? XIW DPF

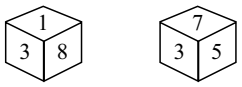
1. GQZ **2.** UWZ **3.** HRY **4.** RBN

37. What would be the letter on the opposite side of 'Y' if the given sheet is folded to form a cube?



1. Z **2.** V **3.** W **4.** X

38. Six numbers 1, 3, 5, 6, 7 and 8, are written on different faces of a dice. Two positions of this dice are shown in the figure. Which is the number on the face opposite to the face containing 6?



1. 5 **2.** 7 **3.** 3 **4.** 8

39. 96 is related to 16 following a certain logic. Following the same logic, 156 is related to 26. To which of the following is 228 related following the same logic?

(**NOTE:** Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. For example, 13 – operations on 13 such as adding, deleting, multiplying, etc., can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

1. 42 **2.** 34 **3.** 38 **4.** 36

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

40 ? 18 10 4 0

1. 22 **2.** 25 **3.** 30 **4.** 28

41. 'A + B' means 'A is the brother of B'. 'A – B' means 'A is the wife of B'.

'A × B' means 'A is the father of B'. 'A ÷ B' means 'A is the sister of B'.

In 'T × X ÷ Y + Z', how is T related to Z using the same meaning of the mathematical operators as given above?

1. Father **2.** Daughter

3. Father-in-law **4.** Brother

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

162 × 9 – 452 + 7 ÷ 9 = ?

1. 707 **2.** 407 **3.** 507 **4.** 607

43. Select the pair which follows the same pattern as that followed by the two sets of pairs given below. Both pairs follow the same pattern.

DFG : IKL

MOP : RTU

1. WYZ : GIJ **2.** FHI : EGH

3. TVW : YAB **4.** PST : KHG

44. 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) from the statements.

Statements:

Some keys are chains.

All chains are locks.

No lock is a rock.

Conclusions:

I. No rock is a key.

II. At least some keys are locks.

1. None of the conclusion follow

2. Both conclusions I and II follow

3. Only conclusion II follows

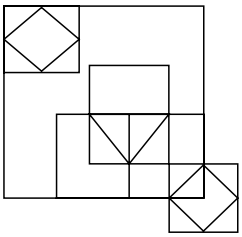
4. Only conclusion I follows

45. 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?

(**NOTE:** The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

1. AJQ **2.** MVC **3.** OXC **4.** ENU

46. How many triangles are there in the given figure?



1. 15 **2.** 13 **3.** 14 **4.** 11

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

M R T Y Z X C 5 7 N

1. ꓤ T ⅄ Z X C 5 ⅃ **2.** ꓤ ⊥ ⅄ ⅀ X C ƨ ⅃

3. ꓤ ⊥ ⅀ ⅄ X C ƨ ⅃ **4.** ∠ ƨ Ↄ X Z ⅄ ⊥ ꓨ

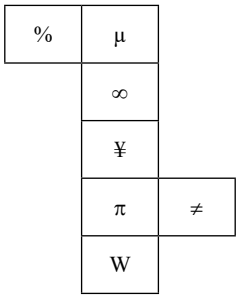
48. In a certain code language, BEAM is coded as 2349 and MEAN is coded as 4327. What is the code for N in that language?

1. 3 **2.** 7 **3.** 4 **4.** 2

49. In a certain code language, 'strong and mighty' is written as 'ui yv tk' and 'soft yet strong' is written as 'hd tk bw'. How is 'strong' written in the given language?

1. hd **2.** bw **3.** ui **4.** tk

50. What would be the symbol on the opposite side of '≠' if the given sheet is folded to form a cube?



1. ¥ **2.** ∞ **3.** % **4.** μ

Quantitative Aptitude

51. If Arun's salary was decreased by 50% and subsequently increased by 50%, then how much per cent did he lose?

1. 25% **2.** 40% **3.** 10% **4.** 36%

52. Simplify the following expression:
$3 + 28 \div 35 \times 15 + 4 - 3 \times 4$
1. 10 **2.** 26 **3.** 64 **4.** 7

53. A motorcycle covered the first 60 km of its journey at an average speed of 40 km/h. The speed of the motorcycle for covering the rest of the journey, i.e., 90 km, was 45 km/h. During the whole journey, the overall average speed of the motorcycle was:
1. 42 km/h **2.** $42\frac{1}{2}$ km/h
3. $42\frac{1}{7}$ km/h **4.** $42\frac{6}{7}$ km/h

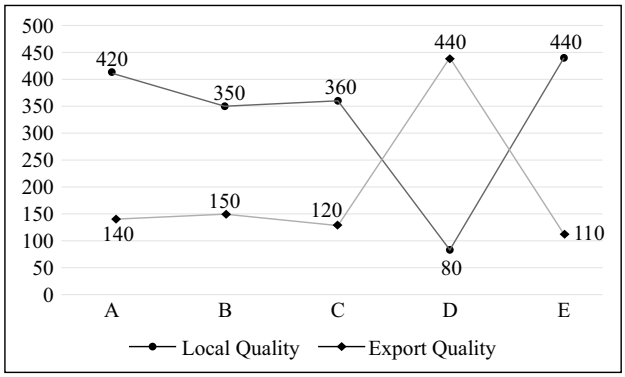
54. A shopkeeper decides to raise the marked price of an article by 40%. How much percentage discount should he allow to be able to sell the article at the original marked price?
1. $26\frac{3}{7}\%$ **2.** $24\frac{3}{7}\%$ **3.** $31\frac{2}{7}\%$ **4.** $28\frac{4}{7}\%$

55. The largest possible sphere is carved from a cube of side 14 cm. What is its volume in cm^3?
1. $1600\frac{1}{3}$ **2.** $1437\frac{1}{3}$ **3.** $205\frac{1}{3}$ **4.** $1707\frac{1}{3}$

56. A and B can do a work in 10 days and 40 days, respectively. How long will it take for them to complete the work together?
1. 12 days **2.** 8 days **3.** 15 days **4.** 20 days

57. A company has five plants for manufacturing spare parts. Each plant manufactures local quality and export quality. What is the ratio of the production of local quality and export quality units of the highest manufacturing plant?

Manufacturing capacity of different plants

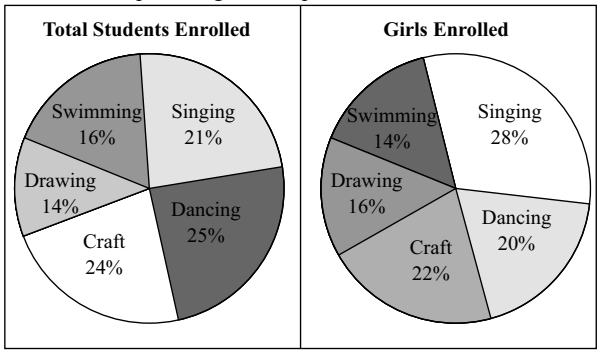


1. 2 : 11 **2.** 4 : 1 **3.** 3 : 1 **4.** 7 : 3

58. Which of the following is a correct statement?
1. The sum of the angles of a cyclic quadrilateral is always 180°.
2. Equal chords are equidistant from the centre of the circle but do not always subtend equal angles at the centre of the circle.
3. If two circles touch each other, the point of contact lies on the line joining the two centres.
4. Angles subtended by the arc in the same segment of the circle are in a ratio of 2 : 1.

59. Radhika requested the cashier of a bank to get her coins in lieu of her cheque worth ₹1,845. The cashier gave her a packet containing ₹5, ₹10 and ₹20 coins in the ratio of 3 : 5 : 7. What is the total worth of the smallest coin received by her?
1. ₹125 **2.** ₹105 **3.** ₹145 **4.** ₹135

60. The percentage of students enrolled in different activities in a school is displayed in the pie chart on the left. The total number of students is 5,000.
In the pie chart on the right, the total number of girls is 1,550 and their percentage breakup enrolled in these activities.



The number of girls enrolled in craft forms what per cent of the total number of students in the school?
1. 6.82% **2.** 5.81% **3.** 5.82% **4.** 7.11%

61. In how many years will the simple interest on a sum of money be equal to the principal at the rate of per $2\frac{6}{7}$ % per annum?
1. 35 years **2.** 34 years **3.** 33 years **4.** 37 years

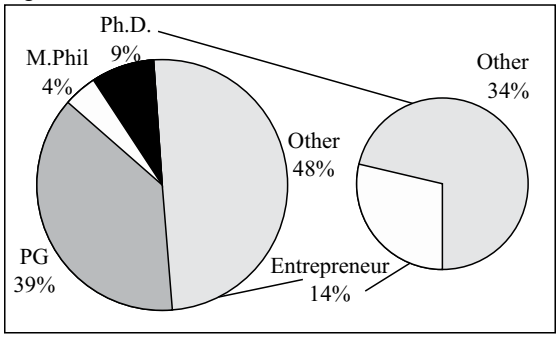
62. Given that the perimeters of two similar triangles, ΔABC and ΔDEF, are 24 cm and 9 cm, respectively, and DE = 3 cm, what is the ratio between the area of ΔABC and that of ΔDEF?
1. 64 : 9 **2.** 54 : 9 **3.** 64 : 7 **4.** 54 : 7

63. A man spent 60% of his salary on household expenses, 20% of his salary on rent and out of the remaining salary, he donated 80% to a trust. If he is left with ₹20,000, then what is his salary?
1. ₹4,00,000 **2.** ₹5,00,000 **3.** ₹5,50,000 **4.** ₹50,000

64. A shopkeeper marks up the price of oil by 40% and uses a faulty machine that measures 15% less. If the shopkeepker gives a discount of 32%, the profit/loss percentage is
1. 15% Loss **2.** 25% Profit
3. 18% Loss **4.** 12% Profit

65. If the equation of line p is $x + y = 5$ and that of line q is $x - y = 3$, what are the coordinates of the point common to both the lines?
1. (2, 1) **2.** (2, 3) **3.** (4, 1) **4.** (1, 4)

66. Study the given pie-charts and answer the question that follows.
The pie-charts show the data of students progress after graduation.



1. P.G. + M.Phil. **2.** Entrepreneur + Ph.D.
3. Entrepreneur + P.G. **4.** P.G. + Ph.D.

67. What will be the least value of x so that the 5-digit number 627×5 becomes divisible by 9?
1. 7 **2.** 4 **3.** 3 **4.** 9

68. The ratio of the diameters of two spheres is given as 1 : 4. The larger sphere is melted and 125 identical spheres are made out of the molten material. The smaller sphere is melted and 27 identical spheres are made out of the molten material. If the ratio of the volume of each of the 125 identical spheres to the volume of each of the 27 identical spheres is given as 1 : m, what is the value of m?
1. $\frac{1728}{125}$ **2.** $\frac{27}{8000}$ **3.** $\frac{125}{1728}$ **4.** $\frac{64}{3375}$

69. If PQ and PR are the two tangents to a circle with centre O, and ∠QOR = 150°, then ∠QPR is equal to:
1. 60° **2.** 30° **3.** 90° **4.** 45°

70. A man walking at a speed of 5 km/h covers a certain distance in 3 hours 45 minutes. If he covers the same distance by a cycle in 2 hours 10 minutes, what is the speed of the cycle in km/h?
1. $7\frac{16}{26}$ **2.** $9\frac{11}{26}$ **3.** $8\frac{17}{26}$ **4.** $5\frac{11}{26}$

71. Two parallel chords on the same side of the centre of a circle are 12 cm and 20 cm long. If the radius of the circle is $5\sqrt{13}$ cm. What is the distance between the chords?
1. 3 cm **2.** 5 cm **3.** 2 cm **4.** 4 cm

72. The surface area of a cube is 486 cm^2. Find the volume.
1. 486 cm^3 **2.** 729 cm^3 **3.** 625 cm^3 **4.** 512 cm^3

73. In a right-angled triangle ABC, where ∠B = 90º and angles A and C are acute. If cosecA = $2\sqrt{2}$, then find the value of sinA.cosC = cosA.sinC
1. 0 **2.** $2\sqrt{2}$ **3.** 1 **4.** $\sqrt{2}$

74. Mohan gets a 12% increase in his sales in the first year and a 15% increase in the second year, bringing his present sales to ₹1,28,800. What were his sales two years ago?
1. ₹1,25,000 **2.** ₹1,50,000 **3.** ₹1,75,000 **4.** ₹1,00,000

75. The given table shows the percentage of marks obtained by five students in different subjects. Study the table and answer the question that follows. (Maximum marks are given beside each subject)

Subjects → Students ↓	Physics 300	Maths 300	Music 100	Hindi 100	Botany 100
Ram	60	80	90	60	95
Shyam	90	70	80	70	40
Sohan	70	90	95	80	75
Mohan	80	60	70	95	80
Karn	90	50	85	85	80

What are the marks (in percentage) obtained by Mohan?
1. 77.5% **2.** 76.5% **3.** 74.5% **4.** 75.5%

General Awareness

76. Average function is listed in the drop-down menu of which of the following tools?
1. Financial function **2.** Auto Sum function
3. Move function **4.** Insert function

77. Where can you find the emoticons in an instant messaging conversation window?
1. At the middle of the chat window
2. Any where in the chat window
3. At the bottom of the chat window
4. At the top of the chat window

78. Who has the power to regulate the right of citizenship in India?
1. Supreme Court **2.** President
3. Governor **4.** Parliament

79. In which year did India first host the Asian Games?
1. 1948 **2.** 1951 **3.** 1950 **4.** 1949

80. Who among the following was the author of 'Brihat Katha Kosh'?
1. Dandin **2.** Harisena
3. Kshemendra **4.** Bhavabhuti

81. Langvir Nritya is a folk dance from the state of _____.
1. Haryana **2.** Gujarat
3. Uttar Pradesh **4.** Uttarakhand

82. Geoid is the _____ of Earth.
1. shape **2.** axis **3.** colour **4.** orbit

83. In the context of DNA, which of the following principles governs the process of transcription?
1. The transforming principle
2. The principle of complementarity
3. Semiconservative nature of DNA
4. The principle of inheritance

84. Bhatiali folk music, mostly sung by fishermen, is associated with which state?
1. West Bengal **2.** Odisha
3. Andhra Pradesh **4.** Kerala

85. Who was the founder of Arya Samaj?
1. Rabindranath Tagore **2.** Dayanand Saraswati
3. Keshub Chandra Sen **4.** Swami Vivekananda

86. Daler Mehndi is primarily a famous singer of pop songs in which Indian language?
1. English **2.** Punjabi **3.** Hindi **4.** Bengali

87. The five-year plans for India with their duration are given below. Which of the following is correctly matched?

(a)	Second five-year plan	1956–57 to 1960–61
(b)	Third five-year plan	1961–62 to 1965–66
(c)	Fourth five-year plan	1966–67 to 1970–71

1. Both (a) and (c) **2.** Both (b) and (c)
3. Only (a) **4.** Both (a) and (b)

88. Which of the following states/UTs has the first 100% fully digital literate Panchayat in India?
1. Delhi **2.** Puducherry
3. Maharashtra **4.** Kerala

89. Former minister of the state and former president of BJP alliance partner IPFT, _____ received the Padma Shri award (posthumously) in 2023.
1. Prabhat Choudhury
2. Narendra Chandra Debbarma
3. Rebati Mohan Das
4. Pinaki Das Chowdhury

90. Sakewa is a religious festival celebrated by the Kirat Khambu Rai community of _____.
1. Arunachal Pradesh **2.** Sikkim
3. Himachal Pradesh **4.** Goa

91. The growth rate of India's population has been declining since _____.
1. 1971 **2.** 1991 **3.** 1951 **4.** 1981

92. As of March 2024, who among the following is the Chairperson of the National Green Tribunal?
1. Lokeshwar Singh Panta **2.** Prakash Shrivastava
3. Ajay Narayan Jha **4.** Swatanter Kumar

93. According to the Census of India 2011, most people had out-migrated from _____to other states in India.
1. Uttar Pradesh and Bihar
2. Rajasthan and Gujarat
3. Uttar Pradesh and Madhya Pradesh
4. Maharashtra and Gujarat

94. National Institute of Mountaineering and Adventure Sports (NIMAS) is located at _____.
1. Mizoram **2.** Nagaland
3. Himachal Pradesh **4.** Arunachal Pradesh

95. How many squares are there on a chessboard?
1. 69 **2.** 67 **3.** 68 **4.** 64

96. In which part of the Constitution will you find the six broad categories of Fundamental Rights?
1. Part II **2.** Part III **3.** Part IV **4.** Part I

97. The financial year in India starts from on 1 April and ends on _____.
1. 30 June **2.** 31 March **3.** 31 July **4.** 31 May

98. What is the balance of trade of a country?
1. Ratio of international trade
2. Number of exports
3. Difference between imports and exports
4. Number of imports

99. The peninsular plateau of India earlier a part of which continent?
1. South America **2.** Europe
3. Africa **4.** North America

100. In which year did Johannes Nicolaus Bronsted and Thomas Martin Lowry propose the fundamental concept of acids and bases?
1. 1928 **2.** 1921 **3.** 1925 **4.** 1923

Answer Key

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

Answers with Explanations

1. **Option (3) is correct.**
The correct sentence is: Passengers started behaving violently when they were asked to leave the bus station. The phrase 'violent when' will be replaced by 'violently when'. This correction addresses the error of incorrect usage of an adverb. The verb 'behaving' is modified with the adverb 'violently', instead of the adjective 'violent' (which can only qualify a noun).

2. **Option (4) is correct.**
The correct sentence is: The couple preferred to walk till the last house of the town. The phrase 'until the last house' will be replaced by 'till the last house of the town'.

3. **Option (1) is correct.**
The correct sentence is: I will be twenty five next Sunday. Option (2) is in present perfect tense; option (3) and (4) refer to events likely to take place in the future, but the correct structure of simple future is: will/shall +be.

4. **Option (2) is correct.**
The correct sentence is: I am fed up with her complaints. The phrase 'down with' will be replaced by 'fed up with'. 'Down with' means you are in support of something or you are okay with it. Whereas, 'fed up with' means 'bored, annoyed or disappointed, especially by something that you have experienced for too long'.

5. **Option (1) is correct.**
The correct sentence is: As Paul was eating his supper; it is evident from the use of 'supper' (an evening meal, typically a light or informal one), that Paul must have been eating it, not churning (mixing), feeding or grazing.

6. **Option (4) is correct.**
The correct sentence is: Aunt Jenny asked him questions that have been full of deceit, and had a very deep meaning, for she wanted to trap him. The correct verb here is 'asked', which is used to obtain an answer or some information. The other verbs 'demanded, allowed and submitted' do not qualify for the context.

7. **Option (3) is correct.**
The correct sentence is: It seemed as if she was endowed with a talent which could hunt for dark and mysterious. The word 'talent' refers to 'natural aptitude or skill'. Here, Aunt Jenny had the skill for hunting for dark and mysterious things.

8. **Option (2) is correct.**
The correct sentence is: The questions asked by Aunt Jenny were full of deceit, with a very deep meaning, for she wanted to trap him. Therefore, the question "Did you now not want to swim, Paul?" raised suspicion (feeling of distrust) in Paul.

9. **Option (3) is correct.**
The correct sentence is: He searched Aunt Jenny's face; however it informed him nothing. So, he said, "No, ma'am." The fact that the questions asked by Aunt Jenny were full of deceit, with a very deep meaning, for she wanted to trap him, raised suspicion (feeling of distrust) in Paul. So with the onset of the question "Did you now not want to swim, Paul?", Paul searched (examined) the look of Aunt Jenny's face. Other verbs in the options do not align with the context.

10. **Option (1) is correct.**
The correct sentence is: This is the best book for children to read. Here, 'best book' will be replaced by 'the best book', because when an adjective used to qualify a noun is in the superlative degree, the definite article 'the' precedes the adjective (the best). Superlative adjectives are used to describe an object at the upper or lower limit of a quality (the tallest, the smallest, the fastest, the highest).

11. **Option (2) is correct.**
. The idiom 'sold plots like hot cakes' means 'to be sold very quickly and effortlessly'.

12. **Option (3) is correct.**
The idiom 'Black and white' implies 'in written or printed form.' Example: The owner demanded the agreement with the tenant in black and white. Thus, 'in writing' is correct.

13. **Option (1) is correct.**
'Glory' means 'praise, honor or distinction'. Therefore, the antonym is 'shame', meaning 'a regrettable or unfortunate situation or action'. 'Gluttony' implies excess in eating or drinking.

14. **Option (3) is correct.**
The correct sentence is: The skunk had a conspicuous spinal stripe. The word 'conspicuous' means 'clearly visible; prominent'. 'Obscure' and 'faint' can be considered antonyms, while 'charming' is not related.

15. **Option (2) is correct.**
The word 'support' means 'give assistance to'. Thus, 'refute' implies 'to prove wrong by argument or evidence'.

16. **Option (2) is correct.**
'Trivial' implies 'of little value or importance.' 'Vain' implies unsuccessful; 'Liable' means accountable; 'lavish' means extravagant', while 'essential' refers to something crucial.

17. **Option (1) is correct.**
Here, 'Encraoch' has been spelt incorrectly; it should be 'Encroach', which implies 'to trespass upon the property, domain or rights of another, especially stealthily or by gradual advances.'

18. **Option (1) is correct.**
The correct sentence is: Rahul had severe pain in his stomach. Here, 'strong' will be substituted by 'severe', meaning 'very great; intense'.

19. **Option (3) is correct.**
The word 'joyless' means 'without/devoid of joy'. 'Beaming' is showing or radiating joy; 'Blissful' means 'extremely happy and contented'. 'Dubious' is troubled with uncertainty or doubt. Thus, the correct antonym is 'blissful'.

20. **Option (4) is correct.**
The correct sentence is: In both countries we have leaders of exceptional ability. The word 'exceptional' means unusual; not typical. Leaders can be attributed with exceptional ability, not powerful, almighty, or compelling ability.

21. **Option (4) is correct.**
The correct sentence is: I begged him to reconsider the decision, but he refused to yield. Here, the word 'reconcider' has been spelt incorrectly; it should be 'reconsider'.

22. **Option (2) is correct.**
The correct sentence is: It is a general belief that the female ostrich guards the nest at night. The phrase 'guards the nest at night' will replace 'guard the nest at night'. This pertains to the error in subject-verb concord and tense consistency. The word 'ostrich' is a singular noun, so it takes the singular verb 'guards'. Moreover, the tense must be simple present as it is a general belief or fact.

23. Option (1) is correct.

The correct sentence is: Yesterday, I ate only a pair of apples for my dinner. 'Pair' refers to a set of two things used together or regarded as a unit, while 'pear' is a fruit.

24. Option (4) is correct.

The correct sentence is: The documentary explored the historical and cultural significance of the ancient ruins in the region. The word 'antique' means 'a manufactured product (such as an automobile) from an earlier period.'

25. Option (1) is correct.

The correct sentence is: The little boy cried with pain when he burnt his fingers. 'Burnt' is the past form of the verb 'burn', and the sentence demands a verb in the past tense.

26. Option (3) is correct.

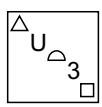
$10 + 5 \times 2 = 20$

$14 + 7 \times 2 = 28$

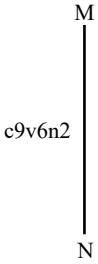
So, $22 + 11 \times 2 = 44$

27. Option (3) is correct.

From figure 1 to 2, every element moves to the next position. From figure 2 to figure 3, the first two elements interchange their positions and the next two elements also interchange positions. Also, the fifth element is replaced with a new element. So, the next figure is



28. Option (1) is correct.



In the mirror image, the mirror image is the left becomes right, and the right becomes left. Hence, ʕɔ∩∂vϱɔ .

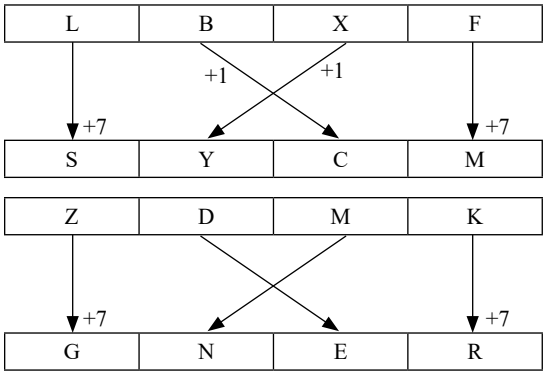
29. Option (3) is correct.

A **B** A **B** C/ A B **A** B **C**/ A **B A** B C/ A B A **B** C

Pattern followed is:

A B A B C

30. Option (3) is correct.



31. Option (4) is correct.

$13 - 26 \div 13 \times 24 + 7$

Using BODMAS rule,

$13 - 2 \times 24 + 7$

$13 - 48 + 7 = 20 - 48 = -28$

32. Option (3) is correct.

$129 - 1 = 128$

$128 - 4 = 124$

$124 - 9 = 115$

$115 - 16 = 99$

$99 - 25 = 74$

33. Option (2) is correct.

Arranging in alphabetical order

V	I	R	T	U	A	L
A	I	L	R	T	U	V

The position of only 'I' has remained unchanged.

34. Option (1) is correct.

$74 - 52 + (39 \div 13) \times 16 + (14 \div 2) = 106$

Interchange 52 and 39,

$74 - 39 + (52 \div 13) \times 16 + (14 \div 2)$

Using BODMAS,

$= 74 - 39 + 4 \times 16 + 7 = 74 - 39 + 64 + 7$

$= 145 - 39 = 106 = \text{RHS}$

35. Option (4) is correct.

If the year is NOT a leap year, then the last day of the year and the first day of the same year will be the same.

36. Option (4) is correct.

$F \xrightarrow{+6} L \xrightarrow{+6} R \xrightarrow{+6} X \xrightarrow{+6} D$

$N \xrightarrow{+7} U \xrightarrow{+7} B \xrightarrow{+7} I \xrightarrow{+7} P$

$V \xrightarrow{+9} E \xrightarrow{+9} N \xrightarrow{+9} W \xrightarrow{+9} F$

37. Option (1) is correct.

In an open dice, alternate pairs are opposite to each other,

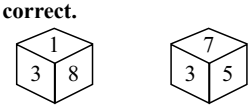
$Z \rightarrow Y$

$V \rightarrow W$

$U \rightarrow X$

Hence, Z will be opposite to Y.

38. Option (3) is correct.



Move in a clockwise direction from the common face to get the opposite pairs:

$3 \rightarrow 1 \rightarrow 8$

$3 \rightarrow 7 \rightarrow 5$

Hence, 3 will be opposite to 6.

39. Option (3) is correct.

$96 \div 6 = 16$

$156 \div 6 = 26$

$228 \div 6 = 38$

40. Option (4) is correct.

$40 - 12 = 28$

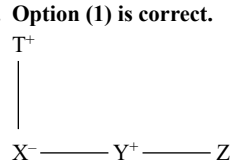
$28 - 10 = 18$

$18 - 8 = 10$

$10 - 6 = 4$

$4 - 4 = 0$

41. Option (1) is correct.



T is the father of Z.

42. Option (2) is correct.

After interchanging + and –, × and ÷

Using BODMAS Rule:

$162 \div 9 + 452 - 7 \times 9 = 18 + 452 - 7 \times 9 = 18 + 452 - 63 = 407$

43. Option (3) is correct.

$D \xrightarrow{+5} I$

$F \xrightarrow{+5} K$

$G \xrightarrow{+5} L$

Similarly,

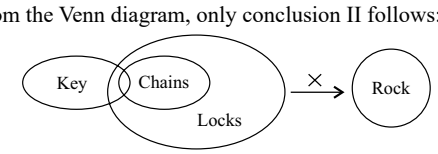
$T \xrightarrow{+5} Y$

$V \xrightarrow{+5} A$

$W \xrightarrow{+5} B$

44. Option (3) is correct.

From the Venn diagram, only conclusion II follows:



45. Option (3) is correct.

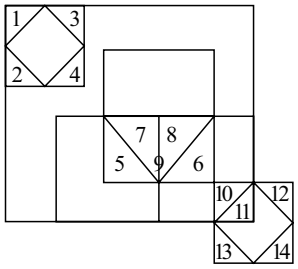
$A \xrightarrow{+9} J \xrightarrow{+7} Q$

$M \xrightarrow{+9} V \xrightarrow{+7} C$

$O \xrightarrow{+9} X \xrightarrow{+5} C$

$E \xrightarrow{+9} N \xrightarrow{+7} U$

46. Option (3) is correct.



The total number of triangles in the given figure = 14

47. Option (2) is correct.

$$M \frac{R\ T\ Y\ Z\ X\ C\ 5\ 7}{\text{ꓭ ⊥ ⅄ Z X C ϛ ⅃}} N$$

48. Option (2) is correct.

B E A M - 2 3 4 9

M E A N- 4 3 2 7

In both words, M E A and 2 3 4 are common.

Hence, the code for N = 7

49. Option (4) is correct.

From the two conditions, the common word is "strong" and the common code is "tk."

Strong = tk

And mighty = ui yv

Soft yet – hd bw

50. Option (3) is correct.

In an open dice, alternate pairs are opposite to each other.

% - ≠

μ - ¥

∞ - π

51. Option (1) is correct.

Let Arun's salary be X.

According to the question,

Arun's new salary = ₹$\left(X \times \frac{50}{100} \times \frac{150}{100}\right) = \frac{3}{4}X$

$= \frac{X - \frac{3}{4}X}{X} \times 100 = \frac{1}{4} \times 100 = 25\%$

52. Option (4) is correct.

$3 + 28 \div 35 \times 15 + 4 - 3 \times 4$

$= 3 + \frac{28}{35} \times 15 + 4 - 12 = 3 + 12 + 4 - 12 = 7$

53. Option (4) is correct.

Total time = $\frac{60}{40} + \frac{90}{45} = \frac{3}{2} + 2 = \frac{7}{2}$ hours

Total distance = 60 + 90 = 150 km

So, average speed = $\frac{150}{7} \times 2 = 42\frac{6}{7}$ km/h

54. Option (4) is correct.

Let the original marked price = ₹100

So, the new marked price = ₹140

Let discount % = x%

So, according to the question:

140 – x% of 140 = 100

$\Rightarrow 140\left[1 - \frac{x}{100}\right] = 100$

$\Rightarrow 140\left[\frac{100 - x}{100}\right] = 100$

$\Rightarrow 100 - x = \frac{1000}{14}$

$\Rightarrow x = \frac{400}{14} = 28\frac{4}{7}\%$

55. Option (2) is correct.

Side of cube = 14 cm

For the largest sphere, $r = \frac{14}{2} = 7$ cm

Volume of sphere = $\frac{4}{3}\pi r^3 = \frac{4}{3} \times \frac{22}{7} \times (7)^3 = 1437\frac{1}{3}$ cm^3

56. Option (2) is correct.

Work done by A in 1 day = $\frac{1}{10}$ unit

Work done by B in 1 day = $\frac{1}{40}$ unit

∴ Work done by A and B together to complete the work

$= \frac{1}{10} + \frac{1}{40} = \frac{4+1}{40} = \frac{5}{40} = \frac{1}{8}$

So, time taken by A and B to complete the work = 8 days.

57. Option (3) is correct.

Plants	Total manufacturing capacity
A	420 + 140 = 560
B	350 + 150 = 500
C	360 + 120 = 480
D	440 + 80 = 520
E	440 + 110 = 550

As Plant Ais the highest manufacturing plant, the required ratio $= \frac{420}{140} = \frac{3}{1}$ i.e., 3 : 1

58. Option (3) is correct.

∵ Statement in option (3) is correct.

59. Option (4) is correct.

Let the number of ₹5, ₹10 and ₹20 coins be $3x$, $5x$ and $7x$, respectively.

So, according to the question:

$5(3x) + 10(5x) + 10(7x) = 1845$

$\Rightarrow 205x = 1845 \Rightarrow x = 9$

So, the total worth of ₹5 coins received by her = 15×9 = ₹135

60. Option (1) is correct.

The number of girls enrolled in craft forms = 22% of 1,550

$= \frac{22}{100} \times 1550 = 341$

Total number of students in the school = 5,000

$\therefore$ Required percentage = $\frac{341}{5000} \times 100 = 6.82\%$

61. Option (1) is correct.

Here, $P = \frac{P \times \frac{20}{7} \times T}{100}$

$\Rightarrow T = \frac{100 \times 7}{20} = 35$ years

62. Option (1) is correct.

Since, $\Delta ABC \cong \Delta DEF$

So, perimeter of ΔABC = AB

Perimeter of ΔDEF = DE

$\Rightarrow \frac{24}{9} = \frac{AB}{3}$

$\therefore AB = \frac{24}{9} \times 3 = 8$ cm

Now, $\frac{\text{area of } \Delta ABC}{\text{area of } \Delta DEF} = \left(\frac{AB}{DE}\right)^2 = \left[\frac{8}{3}\right]^2 = \frac{64}{9}$ i.e., 64 : 9

63. Option (2) is correct.

Let total salary = ₹X

According to question,

Remaining salary = X – 80% of X = 20% X = $\frac{X}{5}$

Now, $\frac{X}{5} - \frac{80}{100} \times \frac{X}{5} = 20{,}000$

$\Rightarrow \frac{X}{5}\left[\frac{20}{100}\right] = 20{,}000$

$\Rightarrow$ X = ₹5,00,000

64. Option (4) is correct.

Let actual price = ₹100

MP = ₹100 × $\frac{140}{100}$ = ₹140

Now, selling price = $140 \times \frac{68}{100} = 95.2$

According to the question, actual cost price = 100 – 15 = ₹85

Profit percentage = $\frac{95.2 - 85}{85} \times 100 = 12\%$

65. Option (3) is correct.

Line p: $x + y = 5$ ...(i)

Line q: $x - y = 3$ ...(ii)

On adding both equations, we get:

$2x = 8 \Rightarrow x = 4$

On substituting in eq. (i), we get:

$y = 5 - 4 = 1$

$\therefore$ Coordinates are (4, 1)

66. Option (4) is correct.

Percentage for PG + PH.d = 39% + 9% = 48%

67. Option (1) is correct.

As, $627x5$ is divisible by 9.

$\Rightarrow 6 + 2 + 7 + x + 5$ is divisible by 9.

$\Rightarrow 20 + x$ is divisible by 9.

So, least value of $x = 7$

68. Option (3) is correct.

Let $d_1 = x$ and $d_2 = 4x$ be the diameters of two spheres.

Now, volume of big sphere = Volume of 125 spheres

$\Rightarrow \frac{4}{3}\pi\left(\frac{4x}{2}\right)^3 = \frac{4}{3}\pi r_1^3 = 125$

$\Rightarrow r_1 = -\frac{2x}{5}$

Also, volume of small sphere = Volume of 2% spheres

$\Rightarrow \frac{4}{3}\pi\left(\frac{x}{2}\right)^3 = 27 \times \frac{4}{3}\pi(r_2)^3$

$\Rightarrow \frac{x}{2} = 3r_2 \Rightarrow r_2 = \frac{x}{6}$

According to the question,

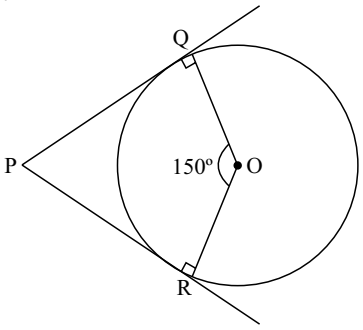
Ratio = $\frac{\frac{4}{3}\pi\left(\frac{2x}{5}\right)^3}{\frac{4}{3}\pi\left(\frac{x}{6}\right)^3} = \frac{8}{125} \times \frac{216}{1}$

$\Rightarrow \frac{1}{m} = \frac{1728}{125} \Rightarrow m = \frac{125}{1728}$

69. Option (2) is correct.

As, PQ and PR are tangents to the circle.

So, $\angle PQO = \angle PRO = 90^\circ$



In quadrilateral PQRO

$\angle Q + \angle Q + \angle R + \angle O = 360^\circ$

$\Rightarrow \angle P = 90^\circ + 150^\circ + 90^\circ = 360^\circ$

$\Rightarrow \angle P = 360^\circ - 330^\circ = 30^\circ$

70. Option (3) is correct.

Distance covered = Speed × Time

$= 5 \times 3\frac{3}{4} = 5 \times \frac{15}{4} = \frac{75}{4}$ km

Now, speed of cycle = $\frac{75}{4\times 2\frac{1}{6}} = \frac{75\times 6}{4\times 13} = 8\frac{17}{26}$ km/h

71. Option (3) is correct.

In ΔODA,

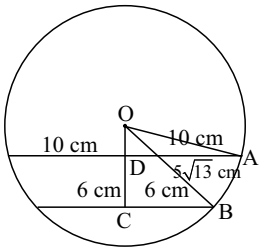
$OD = \sqrt{(5\sqrt{13})^2 - 10^2} = \sqrt{225}$

= 15 cm

In ΔOBD,

$OC = \sqrt{(5\sqrt{13})^2 - 6^2} = \sqrt{289}$

= 17 cm



$\therefore$ DC = OC – OD = 17 – 15 = 2 cm

72. Option (2) is correct.

Given, surface area of cube = 486

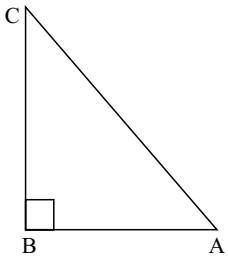
$6a^2 = 486$

$a^2 = 81 = \frac{a}{3}$ = 9 cm

So, volume of cube = $a^3 = 9^3 = 729$ cm^3

73. Option (3) is correct.

Given cosec A $= 2\sqrt{2}$



Now, sinA cosC + cosA sinC

= sin (A + C) = sin 90º = 1

74. Option (4) is correct.

Let two years ago salary be = ₹X

According to the question,

$X\times\frac{112}{100}\times\frac{115}{100} = 128800$

$\Rightarrow X = \frac{128800\times 100\times 100}{112\times 115}$ = ₹100000

75. Option (3) is correct.

Marks obtained by Mohan,

$= \frac{80}{100}\times 300 + \frac{60}{100}\times 300 + \frac{70}{100}\times 100 + \frac{95}{100}\times 100 + \frac{80}{100}\times 200$

= 240 + 180 + 70 + 95 + 160 = 745

Total maximum marks = 300 + 300 + 100 + 100 + 200 = 1000

$\therefore$ Required %age = $\frac{745}{1000}\times 100$ = 74.5%

76. Option (2) is correct.

The Average function is found in the drop-down menu of the AutoSum function in MS Excel. The AutoSum tool provides quick access to common functions such as Sum, Average, Count, Max, and Min, allowing users to perform basic calculations efficiently with a single click or through the drop-down menu.

77. Option (3) is correct.

Emoticons in an instant messaging conversation window are typically found at the bottom of the chat window. This location usually features an emoticon icon or button that opens a menu for selecting and inserting various emoticons and emojis into the conversation, enhancing communication with visual expressions.

78. Option (4) is correct.

According to the Constitution of India, Parliament has the power to regulate the right of citizenship by law. This power is outlined in Article 11 of the Constitution, which is part of Part II, "Citizenship" (Articles 5–11). Parliament can make provisions for the acquisition and termination of citizenship, as well as other related matters. As a result of this provision, Parliament passed the Citizenship Act of 1955.

79. Option (2) is correct.

The 1951 Asian Games, also known as the First Asian Games or 1951 Asiad, were held in New Delhi from 4 March to 11 March. Featuring 489 athletes from 11 Asian NOCs competing in 57 events across eight sports, the Games were postponed from 1950 to 1951 due to preparation delays.

80. Option (2) is correct.

The book "Vrihat Katha Kosha" was authored by Harisena, a Sanskrit scholar and poet from the 4th century CE. This work is a compilation of ancient Indian folk tales and legends. Harisena also served as a court poet for King Samudragupta of the Gupta dynasty.

81. Option (4) is correct.

Langvir Nritya is a traditional folk dance from Uttarakhand, India, performed by men in traditional attire and masks. It narrates the story of Lord Shiva and his wife Parvati, accompanied by drumbeats and singing. This vibrant dance is popular in Uttarakhand and is frequently featured at festivals and celebrations.

82. Option (1) is correct.

The geoid refers to the shape of the Earth, representing the mean sea level and gravitational variations. It is an irregular, oblate shape that approximates Earth's shape by considering gravitational forces and rotational effects. Unlike a perfect sphere or ellipsoid, the geoid reflects Earth's complex gravitational field.

83. Option (2) is correct.

In the context of DNA, the process of transcription is governed by the principle of complementarity. This principle dictates that during transcription, RNA polymerase synthesises a complementary RNA strand based on the DNA template strand, ensuring accurate genetic information transfer from DNA to RNA.

84. Option (1) is correct.

Bhatiali is a traditional folk music genre from West Bengal, often associated with songs sung by boatmen on the river. The term "Bhatiali" reflects its connection to the river, with "Bhati" meaning downstream.

85. Option (2) is correct.

Swami Dayanand Saraswati was an Indian philosopher and social leader who founded the Arya Samaj, a Hindu reform movement, in Bombay in April 1875. The Arya Samaj is a monotheistic socio-religious movement that promotes values and practices based on the authority of the Vedas. The movement's motto is “Krinvanto Vishvam Aryam,” which means "Make this world noble".

86. Option (2) is correct.

Daler Mehndi is primarily a famous singer of pop songs in the Punjabi language. He is known for his energetic and vibrant music, which includes popular Punjabi pop and Bhangra songs. His contributions have significantly popularised Punjabi music both in India and internationally.

87. Option (4) is correct.

Five-year Plans	Years
Second Five-Year Plan	(1956–61)
Third Five-Year Plan	(1961–66)
Fourth Five-Year Plan	(1969–74)

The period between 1966 and 1969 was called the "plan holiday" in India, and it included three annual plans: 1966–67, 1967–68 and 1968–69. Hence, option (4) is correct.

88. Option (4) is correct.

Kerala became the first 100% fully digital literate Panchayat in India. Kerala became the first digital state in India by connecting all its villages with broadband under the National Optical Fibre Network (NOFN) project. President Pranab Mukherjee officially recognised Kerala's achievement during a digital empowerment campaign in Kozhikode, aimed at closing the digital divide by 2020.

89. Option (2) is correct.

Narendra Chandra Debbarma, a former revenue minister in the BJP government in Tripura and a veteran tribal leader, was awarded the Padma Shri posthumously this year for his work in the field of public affairs.

90. Option (2) is correct.

Sakewa is a religious festival observed by the Kirat Khambu Rai community in Sikkim. Also referred to as Bhoomi Puja or Chandi Puja (worship of Mother Earth), it starts on the full moon day of the Hindu month of Baisakh, typically occurring in April or May.

91. Option (4) is correct.

Since 1981, India's population growth rate has been gradually decreasing. This decline is due to a lower birth rate as people recognise the benefits of small nuclear families compared to larger ones. The government has implemented various measures and introduced family planning initiatives to support this trend.

92. Option (2) is correct.

Justice Prakash Shrivastava has been appointed as the Chairperson of the National Green Tribunal (NGT). Following the retirement of former Chairperson Justice A.K. Goel in July, Justice Sheo Kumar Singh served as Acting Chairperson. Justice Shrivastava was enrolled as an advocate on 2 February 1987.

93. Option (1) is correct.

The 2011 Census revealed that Uttar Pradesh and Bihar accounted for the highest number of migrants, with 20.9 million people leaving these states. This figure represents 37% of the total inter-state migrants recorded in that census.

94. Option (4) is correct.

The National Institute of Mountaineering and Allied Sports, an autonomous organisation under the Ministry of Defence, is situated in Dirang Village, Arunachal Pradesh. It offers expert training in mountain rescue, mountaineering and adventure sports.

95. Option (4) is correct.

A standard chessboard features 64 squares and is used for playing chess, with pawns and pieces placed on it. Typically square-shaped, the board has an alternating colour pattern on its squares.

96. Option (2) is correct.

The Constitution provides all citizens with fundamental freedoms, both individually and collectively. These rights are enshrined in the Constitution under six broad categories of justifiable Fundamental Rights. Articles 12 to 35 in Part III of the Constitution address these Fundamental Rights.

97. Option (2) is correct.

In India, the financial year starts on 1 April and concludes on 31 March of the next year. This 12-month period, also referred to as the fiscal year, is utilised for accounting, budgeting and taxation purposes.

98. Option (3) is correct.

The balance of trade represents the difference between a country's exports and imports of goods. A positive balance of trade, or trade surplus, happens when a country exports more goods than it imports.

99. Option (3) is correct.

The peninsular plateau of India was once part of the ancient continent of Africa. This region was part of the supercontinent Gondwana, which included Africa, South America, Antarctica, Australia and the Indian subcontinent. Over millions of years, tectonic movements caused these landmasses to drift apart, leading to the current configuration of continents.

100. Option (4) is correct.

Johannes Nicolaus Brønsted and Thomas Martin Lowry introduced their fundamental concept of acids and bases in 1923. Brønsted's theory focused on acids as proton donors and bases as proton acceptors, while Lowry's theory emphasised the role of hydrogen ion transfer. Their joint contributions, known as the Bronsted-Lowry theory, significantly advanced the understanding of acid–base chemistry.