

1)  $(112 \times 5^4) = ?$

- A. 67000
- B. 70000
- C. 76500
- D. 77200

2)  $3 + 33 + 333 + 3.33 = ?$

- A. 362.3
- B. 372.33
- C. 702
- D. None of these

3) The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:

- A. 9000
- B. 9400
- C. 9600
- D. 9800

4) A shopkeeper offers a 20% discount on a shirt that originally costs ₹1,500. However, during a special sale, an additional 10% discount is applied on the new discounted price. What is the final price of the shirt after both discounts?

- A. ₹1,000
- B. ₹1,080
- C. ₹1,200
- D. ₹1,050

5) In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of 1 : 2 : 3. If there is Rs. 30 in all, how many 5 p coins are there?

- A. 50
- B. 100
- C. 150
- D. 200

6) A student's marks were incorrectly entered as 94 instead of 69. Due to this error, the average marks of the class got increased by 1.25. What is the number of students in the class?

- A. 15
- B. 25
- C. 20
- D. 22

7) If the selling price is doubled, the profit triples. Find the profit percentage.

- A.  $66\frac{2}{3}\%$
- B. 100%
- C.  $105\frac{1}{3}\%$
- D. 120%

8) A pipe can fill a tank in 5 hours. How much part of the tank will be filled in 1 hour?

- A.  $\frac{1}{2}$
- B.  $\frac{1}{3}$
- C.  $\frac{1}{4}$
- D.  $\frac{1}{5}$

9) C can complete a piece of work in 12 days, and D can complete the same work in 18 days. They started working together, but after 4 days, C left. In how many more days will D finish the remaining work?

- A. 5 days
- B. 6 days
- C. 7 days
- D. 8 days

10) A train 200 meters long is running at a speed of 72 km/h. It crosses a bridge in 25 seconds. What is the length of the bridge?

- A. 300 meters
- B. 400 meters
- C. 500 meters
- D. 600 meters

11) John drives from City A to City B, which is 240 km apart. He drives the first 120 km at 60 km/h and the next 120 km at 80 km/h. What is his average speed for the entire journey?

- A. 65 km/h
- B. 67.5 km/h
- C. 70 km/h
- D. 68.6 km/h

12) The average marks of 30 students in a class is 65. Later, it was found that one student's marks were wrongly recorded as 85 instead of 75. What is the correct average after the correction?

- A. 64.6
- B. 64.8
- C. 65.2
- D. 64.7

13) The ratio of the present ages of A and B is 4:5. After 6 years, the ratio of their ages will be 5:6. What are their present ages?

- A. 20 years, 25 years
- B. 24 years, 30 years
- C. 28 years, 35 years
- D. 32 years, 40 years

14) Two pipes can fill a cistern in 14 hour and 16 hour respectively. The pipes are opened simultaneously and it is found that due to leakage in the bottom it took 32 minutes more to fill the cistern. When the cistern is full, in what time will the leak empty it?

- A. 110 hour
- B. 112 hour
- C. 102 hour
- D. 119 hour

15) Five fair coins are tossed together. What is the probability of getting exactly 2 heads?

- A.  $\frac{1}{2}$
- B.  $\frac{7}{16}$
- C.  $\frac{5}{16}$
- D.  $\frac{4}{11}$

16) A trader mixes 26 kg of rice at Rs.20 per kg with 30 kg of rice of other variety at Rs.36 per kg and sells the mixture at Rs.30 per kg. His profit percent is

- A. No profit, no loss
- B. 5
- C. 8
- D. 10

17) A woman's age is 150% of what it was 10 years ago, but 75% of what it will be after 10 years. What is her present age?

- A. 25 years
- B. 30 years
- C. 35 years
- D. 40 years

18) A motor boat, whose speed is 15 km/hr in still water, goes 30 km downstream and comes back in a total of 4 hours 30 minutes. The speed of the stream in km/hr is:

- A. 5 km/hr
- B. 4 km/hr
- C. 6 km/hr
- D. 10 km/hr

19) Aman can row downstream at 15 km/h and upstream at 9 km/h. Find the speed of Aman in still water and the speed of the current.

- A. 12 km/h and 3 km/h
- B. 10 km/h and 5 km/h
- C. 13 km/h and 2 km/h
- D. 11 km/h and 4 km/h

20) The average of 37 consecutive odd numbers is 87. Find the largest of these numbers.

- A. 123
- B. 125
- C. 113
- D. 111

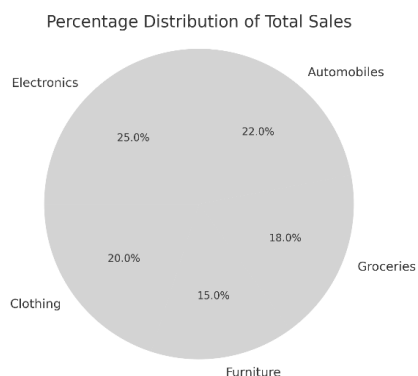
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### Pie Chart-Based Data Interpretation Questions

#### Directions (21-25):

The pie chart below shows the percentage distribution of total sales (in crores) made by a company in different product categories in a particular year.

The total sales made by the company in the year = **₹500 crores**.



### Questions:

21) What is the total sales (in crores) made in the Electronics category?

- A) ₹100 crores
- B) ₹120 crores
- C) ₹125 crores
- D) ₹150 crores

22) How much more sales (in crores) were made in the Automobiles category compared to the Furniture category?

- A) ₹25 crores
- B) ₹35 crores
- C) ₹40 crores
- D) ₹50 crores

23) If the company's total sales increase by 20% next year, what will be the new sales value (in crores) for the Clothing category?

- A) ₹100 crores
- B) ₹110 crores
- C) ₹120 crores
- D) ₹130 crores

24) What is the ratio of sales made in the Groceries category to the Furniture category?

- A) 5:4
- B) 6:5
- C) 9:8
- D) 7:6

25) If the company wants to increase the sales of the lowest-selling category by 50%, what will be the new total sales (in crores) in that category?

- A) ₹80 crores
- B) ₹90 crores
- C) ₹100 crores
- D) ₹110 crores

26) Find the number of triangles in the given figure.



- A. 12
- B. 18
- C. 22
- D. 26

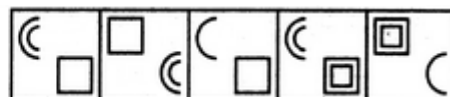
27) Select a suitable figure from the Answer Figures that would replace the question mark (?)

Problem Figures:



(A) (B) (C) (D)

Answer Figures:



(1) (2) (3) (4) (5)

- A. 1
- B. 2
- C. 3
- D. 4

28) Bread is related to Wheat in the same way as Brick is related to:

- A. Building
- B. Cement
- C. Clay
- D. Fire

29) What does this symbol ^ mean?

- A. Caret
- B. Bar
- C. Ampersand
- D. Reversed Caret

30)  $48 \div (3 \times 2) + 24 - 6 \times 4 = ?$

- A. 0
- B. 4
- C. 6
- D. 8

31) If A is selected, then B must also be selected. What does this statement imply?

- A. A and B will always be together
- B. If A is not selected, B may or may not be selected
- C. If B is selected, then A must also be selected
- D. A and B will never be selected together

32) Ravi is taller than Suresh but shorter than Karan. Mohan is the shortest. Arjun is taller than Mohan but shorter than Suresh. Who is the tallest?

- A. Karan
- B. Suresh
- C. Ravi
- D. Arjun

33) Choose the figure which is different from the rest.



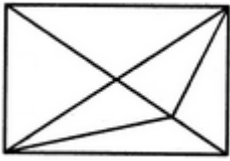
(1)   (2)   (3)   (4)   (5)

- A. 1
- B. 2
- C. 3
- D. 4

34) Choose the word which best expresses the meaning of the word "**OPTIMISTIC.**"

- A. Pessimistic
- B. Hopeful
- C. Doubtful
- D. Anxious

35) Find the number of triangles in the given figure.



- A. 11
- B. 13
- C. 15
- D. 17

36) Soft minded individuals are \_\_\_\_\_ to embrace all kinds of superstitions.

- A. disposed
- B. eager
- C. reluctant
- D. prone

37) Choose the alternative which is closely resembles the mirror image of the given combination.

**MALAYALAM**

**(1) MALAYALAM**

**(2) MAJAYAJAM**

**(3) MALAYALAM**

**(4) MAGAYAGAM**

- A. 1
- B. 2
- C. 3
- D. 4

38) Success is to failure as perseverance is to

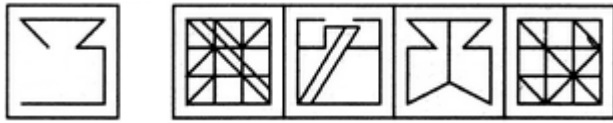
- A. Laziness
- B. Weakness
- C. Giving up
- D. Doubt

39) The internship program provides a valuable \_\_\_\_\_ for students to gain practical experience.

- A. setback
- B. breakthrough
- C. breakdown
- D. breakup



40) Find out the alternative figure which contains figure (X) as its part.



(X)      (1)      (2)      (3)      (4)

- A. 1
- B. 2
- C. 3
- D. 4

41) In how many different ways can the letters of the word "**MASTER**" be arranged so that the vowels always come together?

- A. 240
- B. 360
- C. 720
- D. 480

42) A person walks 5 km towards the north, then takes a left turn and walks 3 km. Then, he takes another left turn and walks 5 km. Finally, he turns right and walks 2 km. How far is he from the starting point?

- A. 2 km
- B. 3 km
- C. 4 km
- D. 5 km

43) **Statements:** All the trucks are flies. Some scooters are flies.

**Conclusions:**

1. All the trucks are scooters.
2. Some scooters are trucks.

- A. Only (1) conclusion follows
- B. Only (2) conclusion follows
- C. Either (1) or (2) follows
- D. Neither (1) nor (2) follows

44) A farmer has 3 daughters. Each daughter has 2 brothers. How many children does the farmer have?

- A. 5
- B. 6
- C. 7
- D. 8

45) Introducing a boy, a woman said, "**He is the son of my only daughter.**" How is the woman related to the boy?

- A. Mother
- B. Grandmother
- C. Aunt
- D. Sister

46) One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?

- A. East
- B. West
- C. North
- D. South

47) Which one will replace the question mark ?

A <sub>2</sub>	C <sub>4</sub>	E <sub>6</sub>
G <sub>3</sub>	I <sub>5</sub>	?
M <sub>5</sub>	O <sub>9</sub>	Q <sub>14</sub>

- A. L<sub>10</sub>
- B. K<sub>15</sub>
- C. I<sub>15</sub>
- D. K<sub>7</sub>

48) If  $A + B$  means A is the mother of B;  $A - B$  means A is the brother B;  $A \% B$  means A is the father of B and  $A \times B$  means A is the sister of B, which of the following shows that P is the maternal uncle of Q?

- A.  $Q - N + M \times P$
- B.  $P + S \times N - Q$
- C.  $P - M + N \times Q$
- D.  $Q - S \% P$

49) Arrange the words given below in a meaningful sequence.

1. Income	2. Status	3. Education
4. Well-being	5. Job	

- A. 3, 1, 5, 2, 4
- B. 1, 3, 2, 5, 4
- C. 1, 2, 5, 3, 4
- D. 3, 5, 1, 2, 4

50) A train always has

- A. Rails
- B. Driver
- C. Guard
- D. Engine

51) Look at this series: 664, 332, 340, 170, \_\_\_\_, 89, ... What number should fill the blank?

- A. 85
- B. 97
- C. 109
- D. 178

52)  $B_2CD$ , \_\_\_\_,  $BCD_4$ ,  $B_5CD$ ,  $BC_6D$

- A.  $B_2C_2D$
- B.  $BC_3D$
- C.  $B_2C_3D$
- D.  $BCD_7$

53) Which word does NOT belong with the others?

- A. tyre
- B. steering wheel
- C. engine
- D. car

54) choose the word that is a necessary part of the underlined word. Book?

- A. fiction
- B. pages
- C. pictures
- D. learning

55) Cup is to coffee as bowl is to

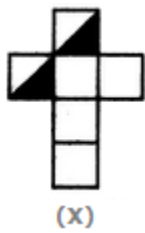
- A. dish
- B. soup
- C. spoon
- D. food

56) Mara runs faster than Gail.

Lily runs faster than Mara.

- Gail runs faster than Lily.
  - If the first two statements are true, the third statement is
- A. true
  - B. false
  - C. uncertain
  - D. none

57) Choose the box that is similar to the box formed from the given sheet of paper (X).



(X)



(1)



(2)



(3)



(4)

- A. 1 and 4 only
- B. 3 and 4 only
- C. 1 and 2 only
- D. 2 and 3 only

58) How many times in a day, the hands of a clock are straight?

- A. 22
- B. 24
- C. 44
- D. 48

59) On what dates of April, 2001 did Wednesday fall?

- A. 1<sup>st</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup>
- B. 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup>, 30<sup>th</sup>
- C. 3<sup>rd</sup>, 10<sup>th</sup>, 17<sup>th</sup>, 24<sup>th</sup>
- D. 4<sup>th</sup>, 11<sup>th</sup>, 18<sup>th</sup>, 25<sup>th</sup>

60) The last day of a century cannot be

- A. Monday
- B. Wednesday
- C. Tuesday
- D. Friday

61) At IPL matches, Peter was sitting in seat 102. Maria was sitting in the 2nd seat right of Peter. Tom was sitting in the seat to the left of Peter. Max was sitting right to Peter at 106. John in the middle of Max and Maria. In which seat John was sitting?

- A. 101
- B. 103
- C. 104
- D. 105

62) If '+' is represented by '\*', '-' is represented by '/', '\*' is represented by '+', and '/' is represented by '-', then what is the value of:

$$8 * 4 + 6 / 2 - 3$$

- A. 18
- B. 14
- C. 22
- D. 10

63) P is to the west of Q. R is to the north of P. S is to the south of Q. T is to the east of S. What is the direction of T with respect to R?

- A. South-East
- B. South
- C. South-West
- D. North-East

64) P is the father of Q. Q is the mother of R. How is P related to R?

- A. Grandfather
- B. Father
- C. Uncle
- D. Brother

65) If CPU is related to the brain, then GPU is related to:

- A. Heart
- B. Eyes
- C. Skeleton
- D. Lungs

66) If STAR is coded as UVCT, then MOON is coded as:

- A. PRRQ
- B. NPPM
- C. OQQP
- D. LNNM

(Questions 67, 68, 69 are from these statements)

### Company Work Shift Allocation

A company has four teams, numbered 1, 2, 3, and 4. Each team is assigned exactly one project and exactly one manager. The projects and managers were assigned in either 2020, 2021, or 2022. The allocation follows the following conditions:

1. Projects are assigned earlier than managers or in the same year.
  2. Project of team 2 and manager of team 1 were assigned in the same year.
  3. Project of team 3 and manager of team 4 were assigned in the same year.
  4. Project of team 2 and Project of team 3 were not assigned in the same year.
  5. Project of team 1 and Manager of team 3 were assigned in 2021.
- 

### Questions

67: If the project of team 3 is assigned earlier than its manager, then:

- A. Manager of team 1 is assigned in 2020
  - B. Project of team 2 is assigned in 2020
  - C. Manager of team 4 is assigned in 2020
  - D. Project of team 1 is assigned in 2022
- 

68: If the project of team 3 is assigned earlier than its manager and manager of team 1 was assigned in 2022, then manager of team 2 was assigned in:

- A. 2020
  - B. 2021
  - C. 2022
  - D. 2021 or 2022
- 

69: If the project and manager of team 3 were assigned in the same year, then:

- A. Manager of team 2 and Manager of team 3 were assigned in the same year
  - B. Project and manager of team 2 were assigned in 2022
  - C. Manager of team 1 was assigned in 2020
  - D. Manager of team 4 was assigned in 2020
-

70) Ornithology: Study of birds, Entomology : ?

- A. Study of reptiles
  - B. Study of insects
  - C. Study of fish
  - D. Study of fossils
- 

**(Questions 71 - 75)**

There are six employees P, Q, R, S, T, U in a company. Each employee works on two projects: one primary and one secondary.

1. S's secondary project is Marketing, and three other employees have IT as their primary project.
  2. T and U are working on Finance as one of their projects.
  3. U's primary project is Sales, which is the secondary project for both R and T.
  4. HR and Operations are P's projects, as primary and secondary, respectively.
  5. Supply Chain is a secondary project for only one of them.
  6. The only female employee is the one who has Marketing as a secondary project and Operations as the primary project.
- 

71. Who is the female employee?

- a) P
- b) R
- c) S
- d) U

72. What is the primary project of R?

- a) IT
- b) Sales
- c) Finance
- d) Operations

73. Which of the following has the same project set as U?



- a) P
- b) R
- c) S
- d) T

74. Who among the following have IT as the primary project?

- a) Q and R
- b) Only Q
- c) S and T
- d) T and U

75. Who has taken Supply Chain as a project?

- a) P
- b) Q
- c) R
- d) S

76) Binary equivalent of 17 is:

- A. 10000
- B. 10001
- C. 10101
- D. 11001

77) Find the 1's complement of the binary equivalent of 15.

- A. 0001
- B. 1000
- C. 0000
- D. 1111

78) Find the BCD (Binary-Coded Decimal) equivalent of 89.

- A. 1000 1001
- B. 1010 1001
- C. 1001 1000
- D. 1000 1010

79) In Boolean Algebra, which of the following expressions is equivalent to

$(A + B)(A + C)$ ?

- A.  $A + BC$
- B.  $AB + AC$
- C.  $A + B + C$
- D.  $A(B + C)$

80) The sum output of a Half Adder is given by:

- A.  $A + B$
- B.  $A \oplus B$
- C.  $AB$
- D.  $A'B$

81) Even parity bit for the given binary number 100101 is

- A. 0
- B. 1
- C. 2
- D. Error

82) Flip flops can be generated using

- A. Not gate
- B. NAND gate
- C. OR gate
- D. AND gate

83) A functional unit of the computer that performs logical operations.

- A. ALU
- B. adder
- C. AND gate
- D. OR gate

84) Which component of a computer system is responsible for carrying data between the processor and memory?

- A. Data bus
- B. Control bus
- C. Address bus
- D. Power bus

85) Which memory is directly accessible by the CPU for high-speed operations?

- A. Hard Disk
- B. RAM
- C. Cache Memory
- D. Flash Memory

86) Low-level programs are translated into high-level programs using:

- A. Compiler
- B. Interpreter
- C. Assembler
- D. None of the above

87) Which type of semiconductor memory can be written only once and cannot be modified later?

- A. SRAM
- B. DRAM
- C. RAM
- D. PROM

88) In binary addition  $0011 + 0010$  equals

- A. 0111
- B. 0101
- C. 0110
- D. 1000

89) Which one of the following software applications is most suitable for performing numerical and statistical calculations?

- A. Database
- B. Spreadsheets
- C. Graphical Package
- D. Document Processor

90) 8 bits represent a \_\_\_\_ data?

- A. Nibble
- B. Byte
- C. Word
- D. Bit

91) Which company owns the Chrome web browser?

- A. Microsoft
- B. Google
- C. Apple
- D. Mozilla

92) Which of the following is used to initialize a computer system's hardware?

- A. Bootstrap memory
- B. Cache memory
- C. Virtual memory
- D. Secondary memory

93) A \_\_\_ is a website where an individual or group regularly posts updates, opinions, or personal experiences for public viewing.

- A. Chat
- B. Email
- C. Blog
- D. Instant message

94) Which of the following is the largest unit of digital storage?

- A. Kilobyte (KB)
- B. Megabyte (MB)
- C. Gigabyte (GB)
- D. Terabyte (TB)

95) Non-volatile memory means:

- A. Memory that loses data when power is off
- B. Memory that retains data even when power is off
- C. Memory used only in RAM
- D. Memory used only for cache

96) SVG means:

- A. System Vector Graphics
- B. Scalable Virtual Graphics
- C. Scalable Vector Graphics
- D. Standard Visual Graphics

97) Which shortcut key is used to select an entire column in Excel?

- A. Ctrl + C
- B. Ctrl + Space
- C. Shift + Space
- D. Alt + C

98) In which form does a digital computer process information?

- A. Continuous form
- B. Discrete form
- C. Semi-continuous form
- D. Semi-discrete form

99) Which of the following is NOT a function of BIOS?

- A. Performing POST (Power-On Self-Test)
- B. Loading the operating system
- C. Managing RAM during program execution
- D. Providing a basic interface between hardware and software

100) Which of the following is most likely to change when a device connects to a different Wi-Fi network?

- A. MAC address
- B. IP address
- C. Serial number
- D. BIOS version