

ENGLISH**1. Change the narration:****He said, "I will go to school tomorrow."**

- a) He said that he would go to school the next day.
- b) He said that he will go to school tomorrow.
- c) He said that I will go to school tomorrow.
- d) He says he will go to school the next day.

2. Identify the part of speech for the underlined word:**She quickly finished her homework.**

- a) Verb
- b) Adjective
- c) Adverb
- d) Noun

3. Change the voice:**The teacher checked the assignments.**

- a) The assignments were checked by the teacher.
- b) The assignments were being checked by the teacher.
- c) The assignments are checked by the teacher.
- d) The assignments had been checked by the teacher.

4. Fill in the blank with the correct determiner:**She bought ____ apples from the market.**

- a) a few
- b) much
- c) a little
- d) many

5. Choose the correct form of tense:**I ____ (study) for two hours before she called.**

- a) studied
- b) had studied
- c) have studied
- d) am studying

6. Fill in the blank with the correct preposition:**He is good ____ mathematics.**

- a) at
- b) in
- c) for
- d) of

7. Choose the correct modal:**You ____ take rest as you look tired.**

- a) should
- b) will
- c) can
- d) might

8. Identify the error in subject-verb agreement:**Each of the boys ____ playing cricket.**

- a) is
- b) are
- c) have
- d) has

9. **Combine the sentences using the correct conjunction: He is rich. He is unhappy.**

- a) Although he is rich, he is unhappy.
- b) Because he is rich, he is unhappy.
- c) If he is rich, he is unhappy.
- d) So he is rich, he is unhappy.

10. **Identify the type of clause: "I know that she is honest."**

- a) Noun clause
- b) Adjective clause
- c) Adverb clause
- d) Main clause

11. **Change the narration:**

She said, "I am writing a letter."

- a) She said that she was writing a letter.
- b) She said that she is writing a letter.
- c) She says that she was writing a letter.
- d) She said she had written a letter.

12. **Identify the preposition: The cat is under the table.**

- a) cat
- b) under
- c) table
- d) is

13. **Fill in the blank with the correct tense:**

By next month, they ____ (finish) the project.

- a) will finish
- b) will have finished
- c) are finishing
- d) have finished

14. **Choose the correct modal :**

She ____ speak three languages fluently.

- a) can
- b) will
- c) must
- d) shall

15. **Complete the sentence with a suitable conjunction:**

You can have tea ____ coffee, but not both.

- a) or
- b) and
- c) because
- d) if

MATHEMATICS

16. **Solve : $5x - 3 = 17$. Find x**

- a) 4
- b) 5
- c) 6
- d) 3

17. A quadrilateral has angles 90° , 80° , 70° .

What is the fourth angle?

- a) 120°
- b) 130°
- c) 110°
- d) 100°

18. A trader marks his goods 20% above cost price and allows a discount of 10%. What is the profit percentage?

- a) 8%
- b) 10%
- c) 12%
- d) 15%

19. If x varies directly with y , and $x = 10$ when $y = 5$, find x when $y = 15$.

- a) 30
- b) 25
- c) 20
- d) 35

20. A cube with a side length of 4 cm has a surface area of :

- a) 48 cm^2
- b) 64 cm^2
- c) 96 cm^2
- d) 128 cm^2

21. Expand $(a + b)^2$

- a) $a^2 + b^2 + 2ab$
- b) $a^2 + b^2 - 2ab$
- c) $a^2 - b^2 + 2ab$
- d) $a^2 + b^2$

22. Simplify : $(2^3)^2 \div 2^4$.

- a) 2^2
- b) 2^3
- c) 2^4
- d) 2^5

23. The square root of 144 is :

- a) 10
- b) 11
- c) 12
- d) 13

24. Factorize: $x^2 - 9$.

- a) $(x+3)(x+3)$
- b) $(x+3)(x-3)$
- c) $x(x-9)$
- d) $x^2 - 3$

25. Which of the following is a rational number?

- a) $\sqrt{2}$
- b) $\sqrt{5}$
- c) $\frac{4}{5}$
- d) π

26. Solve : $\frac{x-2}{3} = 4$. Find x.

- a) 12
- b) 10
- c) 14
- d) 15

27. The diagonal of a square with side length 5 cm is:

- a) 5 cm
- b) $5\sqrt{2}$ cm
- c) 10 cm
- d) $10\sqrt{2}$ cm.

28. If $8x = 64$, find x.

- a) 6
- b) 7
- c) 8
- d) 9

29. What is $3x^2 - 27$ when $x = 3$?

- a) 0
- b) 9
- c) 27
- d) 18

30. A person reduces his monthly spending from Rs. 5000 to Rs. 4500. What is the percentage decrease ?

- a) 5%
- b) 10%
- c) 12%
- d) 15%

APTITUDE

31. What comes next in the series: 2, 4, 8, 16, ?

- a) 24
- b) 32
- c) 18
- d) 20

32. Find the odd one out : Apple, Banana, Mango, Carrot.

- a) Apple
- b) Banana
- c) Mango
- d) Carrot

33. Choose the correct analogy:

Book : Read :: Pen : ?

- a) Write
- b) Hold
- c) See
- d) Erase

34. Decode the word:

If CAT = 3120, what does DOG = ?

- a) 4157
- b) 4100
- c) 4070
- d) 5080

35. If A is the brother of B and B is the sister of C, how is A related to C ?

- a) Brother
- b) Sister
- c) Father
- d) Uncle

36. A person walks 5 km towards the north, then turns right and walks 3 km. Then he turns right again and walks 5 km. Finally, he turns left and walks 2 km. Where is he now from his starting point ?

- a) 3 km east
- b) 3 km west
- c) 5 km north
- d) 2 km south

37. If 15th August 2022 was a Monday, what day will 15th August 2023 be ?

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Thursday

38. How many corners does a cube have?

- a) 6
- b) 8
- c) 12
- d) 16

39. The angle between the hour hand and the minute hand of a clock at 3:15 is:

- a) 7.5°
- b) 22.5°
- c) 15°
- d) 30°

40. Which diagram best represents the relationship between Birds, Eagles, and Animals ?

- a) Three intersecting circles
- b) Nested circles (Birds inside Animals, Eagles inside Birds)
- c) Separate circles for all three
- d) Birds and Animals intersecting, Eagles separate

41. If $6 \times 4 + 3 = 27$, what is the value of $8 \times 5 + 2$?

- a) 30
- b) 42
- c) 40
- d) 50

42. Find the missing number in the series :

3, 6, 11, 18 ?

- a) 27
- b) 25
- c) 29
- d) 23

43. Which of the following Venn diagrams correctly represents the relationship between Engineers, Women, and Teachers?

- a) Intersecting circles with some overlap
- b) Nested circles (Women inside Engineers, Teachers inside Women)
- c) Completely separate circles
- d) Engineers and Teachers intersecting with Women overlapping both

44. A cube has six faces, each of which is painted with a different color. How many distinct ways can you arrange the colors of the cube by rotation?

- a) 24
- b) 30
- c) 12
- d) 720

45. If A is the brother of B, B is the sister of C, and C is the father of D, how is A related to D ?

- a) Uncle
- b) Brother
- c) Father
- d) Cousin

PHYSICS

46. Which of the following best describes the pressure exerted by liquids ?

- a) Increases with depth
- b) Decreases with depth
- c) Uniform at all levels
- d) Independent of depth

47. A rough surface is more likely to cause:

- a) Less friction
- b) More friction
- c) No friction
- d) Uniform friction

48. Sound cannot travel through:

- a) Solid
- b) Liquid
- c) Vacuum
- d) Gas

49. The phenomenon of splitting white light into seven colors is called:

- a) Reflection
- b) Refraction
- c) Dispersion
- d) Absorption

50. Lightning occurs due to the flow of:

- a) Protons
- b) Neutrons
- c) Electrons
- d) Atoms

CHEMISTRY

51. Which material is the best conductor of electricity?

- a) Plastic
- b) Rubber
- c) Copper
- d) Wood

52. Which of the following is not a fossil fuel?

- a) Coal
- b) Petroleum
- c) Natural gas
- d) Hydrogen

53. Combustion of fuels produces:

- a) Carbon dioxide and water
- b) Hydrogen and water
- c) Oxygen and nitrogen
- d) Helium and argon

54. Which flame is the hottest?

- a) Blue flame
- b) Yellow flame
- c) Red flame
- d) Orange flame

55. A bulb glows when an electric current passes through a solution. This shows the solution is:

- a) Conductive
- b) Insulative
- c) Corrosive
- d) Reactive

BIOLOGY

56. Which microorganism is used in the production of alcohol?

- a) Bacteria
- b) Virus
- c) Yeast
- d) Protozoa

57. Which is an asexual method of reproduction?

- a) Budding
- b) Fertilization
- c) Pollination
- d) Fragmentation

58. The hormone responsible for secondary sexual characteristics in males is:

- a) Estrogen
- b) Testosterone
- c) Insulin
- d) Adrenaline

59. Malaria is caused by:

- a) Bacteria
- b) Virus
- c) Protozoa
- d) Fungi

60. Adolescents are advised to eat a diet rich in:

- a) Fats
- b) Vitamins and proteins
- c) Carbohydrates
- d) Sugars