PHYSICS

- The distance travelled by an object per unit time is called
 - a) Speed
 - b) Velocity
 - c) Acceleration
 - d) Distance
- The process of converting a solid into a liquid is called
 - a) Freezing
 - b) Melting
 - c) Evaporation
 - d) Condensation
- 3. Which of the following is an example of a non-renewable energy source?
 - a) Solar energy
 - b) Wind energy
 - c) Coal
 - d) Biomass
- The heat energy required to raise the temperature of 1 kg of water by 1°C is called
 - a) Specific heat capacity
 - b) Latent heat
 - c) Thermal conductivity

- d) Heat of fusion
- The effect of electric current on a wire is called
 - a) Heating effect
 - b) Magnetic effect
 - c) Chemical effect
 - d) All of the above

CHEMISTRY

- 6. Which of the following is an example of a base?
 - a) Vinegar
 - b) Soap
 - c) Salt
 - d) Lime
- 7. Which of the following is a physical change?
 - a) Burning of paper
 - b) Melting of ice
 - c) Rusting of iron
 - d) Digestion of food
- 8. The process of cleaning dirty water is called
 - a) Distillation
 - b) Filtration
 - c) Decantation
 - d) Sedimentation

- 9. Which of the following is NOT a component of acid rain?
 - a) Sulfur dioxide
 - b) Nitrogen oxides
 - c) Carbon dioxide
 - d) Chlorine
- 10. What is the primary function of forest in maintaining the ecosystem?
 - a) Provide timber
 - b) Help in carbon sequestration
 - c) Help in soil erosion
 - d) Provide medicinal plants

BIOLOGY

- 11. Which of the following is responsible for photosynthesis in plants?
 - a) Chlorophyll
 - b) Chloroplast
 - c) Roots
 - d) Stomata
- 12. In animals, the process of respiration takes place in the
 - a) Lungs
 - b) Heart
 - c) Liver
 - d) Stomach

- Water and minerals are transported in plants through
 - a) Phloem
 - b) Xylem
 - c) Roots
 - d) Stem
- 14. Which of the following is NOT a method of plant reproduction?
 - a) Seed formation
 - b) Budding
 - c) Fragmentation
 - d) Pollination
- 15. Which process produces energy in both plants and animals?
 - a) Photosynthesis
 - b) Respiration
 - c) Transpiration
 - d) Germination

ENGLISH

- 16. Identify the passive voice sentence:
 - a) The teacher teaches the lesson.
 - b) The lesson is taught by the teacher.
 - c) The teacher is teaching the lesson.
 - d) The teacher will teach the lesson.

17. Choose the correct form of pronoun:

- a) Me and him went to the park.
- b) Him and I went to the park.
- c) He and I went to the park.
- d) He and me went to the park.

18. Identify the adjective in the sentence:

"The tall building is beautiful."

- a) Tall
- b) Beautiful
- c) Building
- d) Is

19. Which of the following sentences is in the future tense?

- a) She eats an apple.
- b) She is eating an apple.
- c) She will eat an apple.
- d) She has eaten an apple.

20. Which part of speech is the word "quickly" in the sentence:

"She ran quickly"?

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

21. Choose the correct homophone for the blank in the sentence:

"The wind blew the leaves off the tree."

- a) Blue
- b) Blew
- c) Blee
- d) Bluu

22. Select the correct sentence:

- a) The dogs barks loudly.
- b) The dog bark loudly.
- c) The dog barks loudly.
- d) The dogs barking loudly.

23. Identify the adjective in the sentence:

"The red car is parked near the building."

- a) Car
- b) Red
- c) Parked
- d) Building

24. Which pronoun can replace the noun in this sentence?

"Ravi is playing cricket. Ravi loves cricket."

- a) It
- b) She
- c) He
- d) They

25.	Fill in the blank with the correct verb form:	29.	Select the collective noun in the sentence:
	"The sun brightly in the sky."		"A flock of birds flew across the sky."
	a) Shine		a) Flock
	b) Shines		b) Birds
	c) Shining		c) Sky
	d) Shined		d) Flew
26.	Choose the conjunction to complete the	30.	Fill in the blank with the correct gender
	sentence:		noun:
	"I want to go to the park, it is raining."		"The bridegroom is standing next to the"
	a) Or		a) Man
	b) And		b) Girl
	c) But		c) Bride
	d) So		d) Woman
27.	Select the correct preposition for the blank:		MATHEMATICS
	"The keys are the table."		
	a) In	31.	If two lines intersect at a point, the angles
	b) On		formed are
	c) At		a) Acute
	d) With		b) Right angles
			c) Complementary
28.	Choose the word that best fits the sentence:		c) Complementaryd) Vertically opposite angles
28.	Choose the word that best fits the sentence: "The teacher asked us to expand our by		
28.		32.	
28.	"The teacher asked us to expand our by	32.	d) Vertically opposite angles
28.	"The teacher asked us to expand our by learning new words."	32.	d) Vertically opposite angles The sum of the angles of a triangle is
28.	"The teacher asked us to expand our by learning new words." a) Vocabulary	32.	d) Vertically opposite angles The sum of the angles of a triangle is a) 180°
28.	"The teacher asked us to expand our by learning new words." a) Vocabulary b) Grammar	32.	d) Vertically opposite angles The sum of the angles of a triangle is a) 180° b) 90°

- 33. A box contains 4 red balls, 3 blue balls, and 5 green balls. What is the probability of drawing a red ball?
 - a) $\frac{4}{12}$
 - b) $\frac{4}{12}$
 - c) $\frac{3}{12}$
 - d) $\frac{1}{4}$
- 34. What is the perimeter of a rectangle with length 5 cm and breadth 3 cm?
 - a) 15 cm
 - b) 16 cm
 - c) 10 cm
 - d) 8 cm
- 35. What is the area of a square whose side is 6 cm?
 - a) 36 cm^2
 - b) 12 cm²
 - c) 24 cm²
 - d) 18 cm²
- 36. Which of the following is the correct representation of the power form of $5 \times 5 \times 5$?

- a) 5³
- b) 5²
- c) 3⁵
- d) 5⁵
- 37. Solve for x : 3x + 5 = 20
 - a) x = 5
 - b) x = 15
 - c) x = 10
 - d) x = 3
- 38. Which of the following is a rational number?
 - a) $\sqrt{2}$
 - b) π
 - c) 1/3
 - d) e
- 39. The integer between -5 and -7 is
 - a) -6
 - b) -5
 - c) -7
 - d) -8
- 40. Which of the following is an example of vertical opposite angles?
 - a) When two lines cross each other at right angles
 - b) When two angles add up to 90°

- c) When two angles are congruent
- d) When two angles formed by intersecting lines are equal
- 41. The length of one side of an equilateral triangle is 8 cm. What is the perimeter of the triangle?
 - a) 24 cm
 - b) 16 cm
 - c) 32 cm
 - d) 48 cm
- 42. Which of the following numbers is the greatest?
 - a) 0.25
 - b) $\frac{1}{5}$
 - c) 0.2
 - d) $\frac{1}{6}$
- 43. The area of a triangle with base 10 cm and height 5 cm is
 - a) 50 cm²
 - b) 25 cm²
 - c) 20 cm²
 - d) 15 cm²

- 44. Which of the following represents a correct comparison of quantities?
 - a) $0.75 > \frac{3}{4}$
 - b) $\frac{1}{2} > 0.55$
 - c) $\frac{2}{3}$ < 0.8
 - d) $\frac{5}{6} < \frac{4}{5}$
- 45. If the exponents are equal, the value of the expression $2^4 \times 2^3$ is
 - a) 2⁷
 - b) 2¹
 - c) 2⁸
 - d) 2³

APTITUDE

- 46. Find the next term in the series: 1, 4, 9, 16, __?
 - a) 20
 - b) 24
 - c) 25
 - d) 30

- 47. If the word 'BRIGHT' is coded as 'CRJHIU', how is 'FLAME' coded?
 - a) GLBNF
 - b) GMBNF
 - c) GMBNF
 - d) GLBME
- 48. Which number does not belong to the following group: 8, 27, 64, 125, 250?
 - a) 8
 - b) 27
 - c) 250
 - d) 125
- 49. If 'A' is the mother of 'B' and 'C' is the father of 'A', what is 'C' to 'B'?
 - a) Grandfather
 - b) Father
 - c) Uncle
 - d) Brother
- 50. A person walks 3 km north, then turns left and walks 4 km. How far is he from the starting point?
 - a) 7 km
 - b) 3 km
 - c) 4 km
 - d) 5 km

- 51. Find the time between 5:25 PM and 8:40 PM.
 - a) 2 hours 15 minutes
 - b) 3 hours 15 minutes
 - c) 3 hours
 - d) 4 hours
- 52. In a Venn diagram, which set contains all the even numbers?
 - a) A set of prime numbers
 - b) A set of odd numbers
 - c) A set of natural numbers
 - d) A set of even numbers
- 53. Which of the following is a mathematical operation?
 - a) Subtraction
 - b) Square
 - c) Cube
 - d) All of the above
- 54. Which number should replace the question mark in the series: 3, 9, 27, ?, 243?
 - a) 54
 - b) 81
 - c) 72
 - d) 90

55. What is the missing letter in the sequence: A,

C, E, ?, I ?

- a) G
- b) H
- c) F
- d) D
- 56. If $5 \times 4 = 20$, then $4 \times 5 = ?$
 - a) 25
 - b) 20
 - c) 30
 - d) 35
- 57. Which of the following is the odd one out:

12, 15, 20, 25 ?

- a) 12
- b) 15
- c) 20
- d) 25

58. What is the next number in the pattern: 2, 4,

8, 16, __?

- a) 24
- b) 32
- c) 40
- d) 48
- 59. If 18: 72 = 24 : ?
 - a) 120
 - b) 96
 - c) 100
 - d) 88
- 60. Which of the following shapes has no parallel sides?
 - a) Rectangle
 - b) Square
 - c) Rhombus
 - d) Trapezium