

➤ **SECTION-A PHYSICS( 20 QUESTION)**

**1. Which of the following is a non-contact force?**

- A) Friction B) Gravity C) Tension D) Compression

**2. The SI unit of force is:**

- A) Joule B) Newton C) Watt D) Pascal

**3. Which of the following can travel through a vacuum?**

- A) Sound B) Light C) Water waves D) Seismic waves

**4. If an object covers 100 meters in 5 seconds, its speed is:**

- A) 10 m/s B) 15 m/s C) 20 m/s D) 25 m/s

**5. What is the basic unit of mass in the metric system?**

- A) Gram B) Kilogram C) Pound D) Ounce

**6. Which of the following is a good conductor of heat?**

- A) Wood B) Plastic C) Copper D) Rubber

**7. If a pendulum completes 20 oscillations in 10 seconds, its frequency is:**

- A) 0.5 Hz B) 1 Hz C) 2 Hz D) 4 Hz

**8. Which of the following is a type of simple machine?**

- A) Battery B) Lever C) Light bulb D) Magnet

**9. The force that opposes the motion of one surface over another is called:**

- A) Gravity B) Friction C) Tension D) Magnetic force

**10. The force of attraction between two objects is called:**

- A) Friction B) Tension C) Gravity D) Magnetic force

**11. Which of the following is not a type of energy?**

- A) Potential energy B) Kinetic energy C) Magnetic energy D) Thermal energy

**12. The time taken by the Earth to complete one rotation on its axis is:**

- A) 12 hours B) 24 hours C) 30 days D) 365 days

**13. Which of the following is a renewable source of energy?**

- A) Coal B) Natural gas C) Wind D) Petroleum

**14. What happens to the pressure if the area over which a force is applied decreases?**

- A) Increases B) Decreases C) Remains the same D) Becomes zero

**15. If the speed of an object increases, its kinetic energy will:**

- A) Remain the same B) Decrease C) Increase D) Become zero

**16. The process of a solid changing directly into a gas is called:**

- A) Melting B) Condensation C) Sublimation D) Evaporation

**17. The force that pulls objects towards the centre of the Earth is called:**

- A) Magnetic force B) Gravitational force C) Centrifugal force D) Frictional force

**18. Which of the following is not a property of light?**

- A) It travels in straight lines B) It can be reflected  
C) It needs a medium to travel D) It can travel through a vacuum

**19. What is the energy of a moving object called?**

- A) Potential energy B) Kinetic energy C) Magnetic energy D) Chemical energy

**20. Which of the following is not a simple machine?**

- A) Lever B) Pulley C) Screw D) Battery

➤ SECTION-B CHEMISTRY(20 QUESTIONS)

- 21. Which of the following is a compound?**  
A) Oxygen B) Water C) Iron D) Hydrogen
- 22. What is the chemical symbol for sodium?**  
A) S B) Na C) K D) Mg
- 23. Which of the following is not a state of matter?**  
A) Solid B) Liquid C) Gas D) Energy
- 24. Which of the following is a mixture?**  
A) Water B) Carbon dioxide C) Air D) Sodium chloride
- 25. The smallest unit of an element that retains its chemical properties is:**  
A) Molecule B) Atom C) Compound D) Mixture
- 26. Which of the following is a metal?**  
A) Oxygen B) Silicon C) Carbon D) Aluminum
- 27. What is the pH of a neutral substance like pure water?**  
A) 0 B) 7 C) 10 D) 14
- 28. Which of the following is a chemical change?**  
A) Melting of ice B) Boiling of water C) Rusting of iron D) Freezing of water
- 29. The chemical formula for carbon dioxide is:**  
A) CO B) CO<sub>2</sub> C) C<sub>2</sub>O D) C<sub>2</sub>O<sub>2</sub>
- 30. Which of the following is a non-metal?**  
A) Iron B) Silver C) Oxygen D) Copper
- 31. The gas used by plants in photosynthesis is:**  
A) Oxygen B) Hydrogen C) Carbon dioxide D) Nitrogen
- 32. Which of the following is an example of a physical change?**  
A) Burning of paper B) Rusting of iron C) Melting of wax D) Cooking of food
- 33. Which of the following is not a chemical reaction?**  
A) Burning of wood B) Digestion of food C) Melting of ice D) Rusting of iron
- 34. Which of the following is a noble gas?**  
A) Hydrogen B) Oxygen C) Neon D) Nitrogen
- 35. Which of the following substances is the most acidic?**  
A) Lemon juice B) Milk C) Soap D) Baking soda
- 36. Which of the following elements is a liquid at room temperature?**  
A) Sodium B) Mercury C) Aluminum D) Copper
- 37. Which of the following is not a property of metals?**  
A) Ductility B) Malleability  
C) High electrical conductivity D) Poor heat conductivity
- 38. Which element has the atomic number 1?**  
A) Helium B) Oxygen C) Hydrogen D) Carbon
- 39. Which of the following is a good conductor of electricity?**  
A) Rubber B) Wood C) Plastic D) Copper
- 40. The process of a solid changing directly into a gas is called:**  
A) Melting B) Condensation C) Sublimation D) Evaporation:

➤ **SECTION-C BIOLOGY(20 QUESTIONS)**

**41. Which of the following is the powerhouse of the cell?**

- A) Nucleus    B) Mitochondria    C) Ribosome    D) Chloroplast

**42. Which part of the plant is responsible for photosynthesis?**

- A) Roots    B) Stems    C) Leaves    D) Flowers

**43. Which of the following is not a function of the root?**

- A) Absorption of water    B) Transport of nutrients  
C) Photosynthesis    D) Anchorage

**44. Which part of the human digestive system is responsible for nutrient absorption?**

- A) Stomach    B) Small intestine    C) Large intestine    D) Esophagus

**45. Which of the following animals is a mammal?**

- A) Crocodile    B) Whale    C) Shark    D) Lizard

**46. Which part of a flower becomes the fruit?**

- A) Sepal    B) Stamen    C) Pistil    D) Ovary

**47. Which of the following is an example of a vertebrate?**

- A) Earthworm    B) Jellyfish    C) Frog    D) Spider

**48. What is the main function of the heart?**

- A) Filtering blood    B) Pumping blood    C) Producing hormones    D) Absorbing nutrients

**49. Which of the following is a non-renewable resource?**

- A) Wind    B) Water    C) Coal    D) Solar energy

**50. Which of the following is not a part of the human respiratory system?**

- A) Lungs    B) Trachea    C) Kidneys    D) Bronchi

**51. What type of blood vessel carries blood away from the heart?**

- A) Artery    B) Vein    C) Capillary    D) Lymph vessel

**52. Which organ is primarily responsible for filtering waste from the blood?**

- A) Heart    B) Liver    C) Kidneys    D) Lungs

**53. Which of the following is not a characteristic of living things?**

- A) Growth    B) Reproduction    C) Respiration    D) Rusting

**54. Which of the following plants reproduce using spores?**

- A) Rose    B) Mango    C) Fern    D) Apple

**55. Which of the following is not a sense organ?**

- A) Eye    B) Ear    C) Skin    D) Bone

**56. What is the basic unit of life?**

- A) Atom    B) Cell    C) Tissue    D) Organ

**57. Which of the following animals lay eggs?**

- A) Cat    B) Whale    C) Frog    D) Dog

**58. What is the function of chlorophyll in plants?**

- A) Absorb water    B) Absorb sunlight    C) Store food    D) Absorb oxygen

**59. Which part of the plant anchors it to the soil?**

- A) Leaf    B) Stem    C) Root    D) Flower

**60. Which of the following is the largest organ in the human body?**

- A) Brain    B) Liver    C) Skin    D) Heart

➤ **SECTION-D MATHS(30 QUESTIONS)**

**61.What is the largest 4-digit number you can form using the digits 3, 9, 1, and 5 without repeating any digit?**

- A) 9315    B) 9531    C) 9153    D) 9513

**62.The sum of 4321 and 6789 is:**

- A) 10010    B) 10100    C) 11110    D) 10200

**63.What is 15% of 200?**

- A) 20    B) 25    C) 30    D) 35

**64.If the product of two numbers is 72 and one number is 8, the other number is:**

- A) 6    B) 8    C) 9    D) 12

**65.The Roman numeral for 49 is:**

- A) XLV    B) XLIX    C) LIX    D) XLIV

**66.What is the decimal equivalent of  $34\frac{3}{4}$ ?**

- A) 0.25    B) 0.5    C) 0.75    D) 1.0

**67.Which of the following is the largest fraction?**

- A)  $12\frac{1}{2}$     B)  $23\frac{2}{3}$     C)  $34\frac{3}{4}$     D)  $45\frac{4}{5}$

**68If you add 0.25 and 0.75, you get:**

- A) 0.5    B) 1.0    C) 1.25    D) 1.5

**69.If you divide 9 by 3, the answer is:**

- A) 1    B) 2    C) 3    D) 4

**70.Which of the following is an improper fraction?**

- A)  $23\frac{2}{3}$     B)  $54\frac{5}{4}$     C)  $12\frac{1}{2}$     D)  $35\frac{3}{5}$

**71.How many sides does a hexagon have?**

- A) 4    B) 5    C) 6    D) 8

**72.The perimeter of a square with side length 6 cm is:**

- A) 12 cm    B) 18 cm    C) 24 cm    D) 36 cm

**73.The area of a rectangle with length 10 cm and breadth 5 cm is:**

- A) 15 cm<sup>2</sup>    B) 25 cm<sup>2</sup>    C) 50 cm<sup>2</sup>    D) 60 cm<sup>2</sup>

**74.Which of the following is a 3D shape?**

- A) Square    B) Circle    C) Cube    D) Triangle

**75.The sum of the angles in a triangle is:**

- A) 90°    B) 180°    C) 270°    D) 360°

**76..If you have 60 minutes, how many hours is that?**

- A) 0.5 hours    B) 1 hour    C) 1.5 hours    D) 2 hours

**77...How many meters are there in 1 kilometer?**

- A) 100    B) 500    C) 1000    D) 2000

**78..How many seconds are there in 2 minutes?**

- A) 60    B) 100    C) 120    D) 180

**79..If a clock shows 3:45, how many minutes are left to 4:00?**

- A) 10    B) 15    C) 20    D) 30

**80. Which of the following is the longest distance?**

- A) 1000 meters      B) 1 kilometer      C) 5000 centimeters      D) 2000 meters

**81. If you toss a coin, what is the probability of getting a head?**

- A) 0.25      B) 0.5      C) 0.75      D) 1.0

**82. Which of the following is an even number?**

- A) 13      B) 21      C) 24      D) 35

**83. If the average of 5, 10, 15, 20, and 25 is:**

- A) 15      B) 16      C) 17      D) 18

**84. If a number is doubled and then reduced by 5, the result is 15. What is the number?**

- A) 5      B) 10      C) 15      D) 20

**85. What is the sum of the first 10 natural numbers?**

- A) 45      B) 50      C) 55      D) 60

**86. Which of the following is a prime number?**

- A) 4      B) 6      C) 9      D) 11

**87. If  $a = 3$  and  $b = 4$ , then the value of  $a^2 + b^2$  is:**

- A) 12      B) 24      C) 25      D) 30

**88. What is the smallest prime number?**

- A) 0      B) 1      C) 2      D) 3

**89. If a polygon has 8 sides, it is called a:**

- A) Hexagon      B) Heptagon      C) Octagon      D) Decagon

**90. If the simple interest on a sum of money for 4 years at 5% per annum is ₹800, the principal amount is:**

- A) ₹2000      B) ₹3000      C) ₹4000      D) ₹5000

➤ **SECTION-E GK(10 QUESTIONS)**

**91. Which Indian emperor built the Great Stupa at Sanchi?**

- A) Ashoka      B) Chandragupta Maurya      C) Akbar      D) Harsha

**92. Which of the following rivers is known as the "Lifeline of India"?**

- A) Yamuna      B) Ganga      C) Brahmaputra      D) Godavari

**93. The Harappan Civilization is also known as the:**

- A) Aryan Civilization      B) Indus Valley Civilization      C) Gupta Empire      D) Mauryan Empire

**94. Which of the following is the largest desert in India?**

- A) Sahara      B) Kalahari      C) Thar      D) Gobi

**95. Who was the first woman Prime Minister of India?**

- A) Pratibha Patil      B) Indira Gandhi      C) Sonia Gandhi      D) Sushma Swaraj

**96. The national emblem of India is taken from which ancient structure?**

- A) Konark Sun Temple      B) Ashoka Pillar at Sarnath  
C) Qutub Minar      D) Red Fort

**97. Which Indian state is known as the "Land of Rising Sun"?**

- A) Assam      B) Nagaland      C) Arunachal Pradesh      D) Sikkim

**98. The 'Chipko Movement' was related to:**

- A) Wildlife conservation      B) Forest conservation  
C) Water conservation      D) Soil conservation

**99. Which of the following Indian cities is known as the "Silicon Valley of India"?**

A) Mumbai      B) Chennai      C) Hyderabad      D) Bengaluru

**100. Which of the following is not an official language of India?**

A) Hindi      B) Bengali      C) Sanskrit      D) French

➤ **ROUGH WORK**

