



RAMAN SPACE MANTHAN

2025-26

Standard:- VI

Name:- _____

Std:- _____

Roll no:- _____

School Name:- _____

INSTRUCTIONS

- There will be 3 sections
- Physics: 40 Questions
- Chemistry: 30 Questions
- Biology: 30 Questions
- Total questions 100 each carries 4 mark.
- There is a negative marking as -1
- Total exam time 2 hour.
- Don't mark anything on the question paper

➤ PHYSICS

- Which of the following statement is/are true?
 - We can find East-West direction with the help of a magnet.
 - Glass is magnetic material.
 - A cylindrical magnet has only one pole, either north or south pole.A. only (1) B. only (3) C. (1) and (2) D. (2) and (3)
- Which of the following is a natural magnet?
 - Haematite
 - Magnetite
 - Toroid
 - Solenoid
- When a drill bores a hole in a piece of wood, it describes
 - Rotatory motion
 - Translatory motion
 - Linear motion
 - Oscillatory motionA. (3) and (4) B. (1) and (2) C. (1),(2) and (3) D.(1) and (4)
- A runner is training for a race on a straight track. Her trainer records her distance as 1,000 Metres after 4 minutes. What is the runner's speed in Metre per second?
 - 6.7 m/s
 - 4.1 m/s
 - 193 m/s
 - 250 m/s
- Anjali placed a metre stick vertically in a playground at 8.00 a.m. in the morning. How will the shadow of the stick at 12.00 noon be in comparison to the one at 8.00 am?
 - There will be shorter and hidden shadow below the stick.
 - The shadow will be longer and on the opposite side of the stick.
 - The shadow will be shorter and on same side as the sun.
 - The shadow will be shorter and on the opposite side of the sun.
- Statement-1: A source of light which is of the size of pinhead is called point source of light.
Statement-2: Any source of light which is bigger than point source of light is called extended source of light.
 - Both statement 1 and 2 are correct.
 - Both statements 1 and 2 are incorrect.
 - Statement-1 is correct but statement-2 is incorrect.
 - Statement-1 is incorrect but statement-2 is correct.

13. A body is at rest on the surface of earth. Which of the following statement is correct ?
- A. only weight of the body acts on the body
 - B. only upward force acts on the body
 - C. frictional force acts on the body
 - D. Net upward force is equal to the net downward force
14. Deep sea divers put on special suit to
- A. Maintain their body temperature in cold sea water
 - B. Protect against sea animal
 - C. Maintain pressure.
 - D. Keep them dry
15. Raj stretched the elastic band on his catapult and animal a marble at his target which was a rubber ball. When he released the marble, it hit ball fell off the stump. which one of the following best describes the energy transfer and energy change that took place?
- A. The kinetic energy from the catapult converted into potential energy and Transferred to the ball.
 - B. The potential energy from the marble was converted into kinetic energy when it hit the ball.
 - C. The kinetic energy from the stretched elastic band was transferred to the marble and the ball.
 - D. The potential energy from the stretched elastic band was changed into kinetic energy and transferred from the marble to the ball.
16. A person does work equal to 2500 J in climbing a tree of height 5 m. what Is the mass of the person?
- A. 250kg B. 51kg C. 49kg D. 500kg
17. A pair of scissors is used to cut a piece of cord pleased 2 cm from the rivet. A force of 80 N is exerted by the fingers 7.5 cm from the rivet. what is the resistance offered by the cord?
- A. 300N B. 600N C. 0.1875N D. 21.33N
18. A women draws water from a well using a fixed pully. The mass of the bucket and water together is 6.0kg. the force applied by the women is 70. Calculate the mechanical advantage. (Take $g = 10\text{m/s}$)
- A. $7/6$ B. $8/7$ C. $6/7$ D. $13/6$

27. The temperature of one glass of water is 30°C and the temperature of Another glass of water is 0°C . both glasses contain the same amount of Water. which is the correct statement about the two glasses of water?
- A. The molecules of the cold water are larger
 - B. The molecules of the warm water are larger
 - C. The molecules of the warm water have a higher average speed
 - D. The molecules of cold water have a higher average speed
28. A cake has to be baked at a temperature of 350.6°F . what is this temperature On the Celsius?
- A. 162°C
 - B. 194°C
 - C. 177°C
 - D. 212°C
29. The temperature of two glasses of water are 30°C and 0°C . The difference in temperature of the two glasses of water is 30°C . What is their difference in temperature on the kelvin scale?
- A. 30K
 - B. 243K
 - C. 86K
 - D. 303K
30. What must be true about two given object for energy to be transferred as Heat between them?
- A. The object must be large
 - B. The object must be hot
 - C. The object must contain a large amount of energy
 - D. The object must have different temperature
31. 1 calorie is about
- A. 0.24J
 - B. 8.3J
 - C. 250J
 - D. 4.2J
32. In which constellation is the star Sirius located?
- A. Orion
 - B. Canis Major
 - C. Uras Minor
 - D. Uras Major
33. Which is not linked with 'static cling'?
- A. Frictional electricity
 - B. Static electricity
 - C. Current electricity
 - D. All of the above
34. If the two terminals of cell are connected directly with a wire, then
- A. more electric energy will be stored in the cell
 - B. no current will flow in the wire
 - C. the chemicals gets used up very fast
 - D. the current in the wire will be quite small
35. The Hally's Comet is seen after every
- A. 76 months
 - B. 76 years
 - C. 67 years
 - D. 56 years
36. Which unit is used to measure astronomical distance?
- A. Light year
 - B. Leap year
 - C. Kilometer
 - D. Sound year

37. If we touch a bar (uncovered) current carrying wire, we get a shock. This happens because
- A. our body is an insulator of electricity
 - B. our body is a source of electricity
 - C. our body is a conductor of electricity
 - D. transfer of electrons from one body to another
38. Which planet is called morning star or evening star?
- A. Saturn
 - B. Mars
 - C. Jupiter
 - D. Venus
39. Mercury is
- A. smaller than the moon
 - B. the same size as the moon
 - C. larger than the Moon but smaller than Earth
 - D. the same size as Earth
40. Overhead cables used for transmission of electricity need not be insulated because
- A. air is a bad conductor of electricity
 - B. air is a good conductor of electricity
 - C. bare wires conduct electricity better than insulated wire
 - D. none of these

➤ CHEMISTRY

41. Among the following, who is considered as 'The father of chemistry'?
- A. Lavoisier
 - B. J. Dalton
 - C. J.J. Thomson
 - D. J. Proust
42. Study the following properties and then choose the correct option.
- (I) A paper weight is hard. Therefore, it sinks in water.
 - (II) Plastic is hard. It can be scratched easily.
- A. statement I is correct for all hard substances.
 - B. All soft substances cannot be scratched easily.
 - C. All soft substances will float in water.
 - D. both statements are wrong.
43. Sedimentation and decantation are useful to separate
- A. immiscible liquids
 - B. soluble solid from liquid
 - C. insoluble solid from liquid
 - D. insoluble solid from the liquid where the solid is heavier than liquid
44. Which of the following is obtained from the stem of the plant?
- A. Jute
 - B. Cotton
 - C. Wool
 - D. Polyester

45. Which of the following the is a synthetic fibre?
A. Nylon B. Polyester C. Terylene D. All of these
46. **Statement-I:** Wet clothes dry quicker in winters
Statement-II: rate of evaporation increases with decrease of temperature
- A. Both statement are correct and statement II is correct explanation of statement I
B. Both statements are correct and statement II is not a correct explanation of statement I
C. Statement I is correct but statement II is wrong
D. Both the statements are incorrect
47. Which metamorphic rock is formed from limestone?
A. Marble C. Gneiss
B. Slate D. Quartzite
48. Which of the following is a major source of groundwater contamination?
A. Agricultural products C. Septic tanks
B. Landfills D. all of these
49. **Statement I:** Curdling of milk, weathering of rocks are irreversible change.
Statement II: Grinding of grains and cooking of food is reversible change.
- A. Both statements I and II are correct
B. Both statements I and II are incorrect
C. Statement I is correct and statement II is incorrect
D. Statement I is incorrect and statement II is correct
50. Which of the following is not a reversible change?
A. Heating of water into steam
B. Cooking of egg into scrambled egg
C. Heating of wax into molten wax
D. Cooling of water into ice
51. In organic chemistry we study about
A. Carbohydrates B. Proteins C. both (A) and (B) D. ceramic
52. Which of the following is not derived from a photochemical?
A. A gold coin C. A synthetic fibre
B. A plastic toy D. A blue dye
53. The melting points of pure substances are A, B, C and D are 43°C , 27°C , 16°C and 60°C . The order of intermolecular space between them is
A. A, B, C, D C. D, B, C, A
B. D, A, B, C D. C, A, B, D

54. The decreasing order of densities of solids, liquids and gases for a given mass is

A. Solids>Gases>Liquids

C. Liquids>Gases>Solids

B. Gases>Solids>Liquids

D. Solids>Liquids>Gases

55. Which of the following best describes what happens to particles of water vapour when condenses?

A. They gain energy and gain freedom to move about

B. They gain kinetic energy and decrease their freedom to move without significant attraction

C. They lose energy and are closer and less free to move around

D. They lose energy and increase freedom to move around

56. Which of the following is/are correct analogy?

(I) Weaving: Handloom :: Spinning: Charkha

(II) Jute: Stems :: Cotton: Leaves

(III) Cotton: Ginning :: Jute: Retting

(IV) Flax: Nylon :: Rayon: Acrylic

A. (ii) and (iii) only

C. (i) and (iv) only

B. (ii) and (iv) only

D. (i) and (ii) only

57. The two processes of making fibres are?

A. Ginning and Weaving

C. Weaving and Spinning

B. Weaving and Knitting

D. none of these

58. Select the correct statement:

A. On exposure to air and moisture, metal appear dull.

B. Oiled paper is transparent

C. Wood sinks into the water

D. Gases do not dissolve in water

59. Kerosene does not dissolve in water they are called

A. immiscible liquids

C. solvent and solution

B. solute and solute

D. miscible liquids

60. On foggy day air becomes

A. translucent

C. completely opaque

B. more transparent

D. none of these

61. Which of the following techniques be used to separate an insoluble solid from a liquid.

I. Chromatography

III. Filtration

II. isolation

IV. Decantation

A. I, II and III

C. III and IV

B. I and IV

D. II, III and IV

62. Process of sieving is related to

A. Water treatment plant

C. Metallurgy

B. Flour mill

D. Cosmetic plant

63. $\text{NaCl} + \text{NH}_4\text{Cl}$. The mixture can be separated by carrying out

A. Filtration

C. Chromatography

B. Screening

D. Sublimation

64. Corrosion of iron article is called

A. rusting and it is a physical change

C. rusting and it is chemical change

B. dissolution and it is physical change

D. dissolution it is chemical change

65. Shortening of burning candle on burning is

A. Slow and irreversible change

C. Fast and irreversible change

B. Fast and reversible change

D. Slow and reversible change

66. Carbon burns with oxygen to form carbon dioxide. The properties of carbon dioxide are

A. Similar to oxygen

B. Similar to carbon

C. Totally different from carbon and oxygen

D. Much similar to carbon and oxygen

67. The ratio of Nitrogen to Oxygen in air is

A. 1:4

B. 4:1

C. 3:1

D. 1:2

68. If a burning splinter is taken close to the gas jar filled with oxygen, the gas formed is

A. SO_2

B. NO_2

C. CO_2

D. CO

69. Out of these, which is not surface a water

A. Rain water

C. spring water

B. River and lake water

D. sea water

70. At _____ water has its maximum density and minimum volume.

A. 40°C

C. 14°C

B. 4°C

D. 24°C

➤BIOLOGY

71. _____ & _____ are used to test the presence of protein in food.
A. CuSO_4 and HCl B. NaCl and KOH
C. CuSO_4 and NaOH D. NaOH and H_2SO_4
72. What is the main idea of “food miles”?
A. Production B. Consumption C. Storage D. Distance
73. The phenomenon of response of plants to light is called
A. Phototropism B. Geotropism C. Reflex action D. Spectroscopy
74. Life cycle of silk moth consist of how many stages?
A. One B. Two C. Five D. Four
75. The larval stage of a mosquito is also known as
A. Wiggler B. Tumbler C. Caterpillar D. Cocoon
76. Which of the following is macronutrient?
A. Vitamins B. Minerals C. Proteins D. Roughage
77. Which of the following is micronutrient?
A. Fats B. Fiber C. Vitamin D. Protein
78. Tendrils are meant for
A. Storage B. Support C. Defence D. Reproduction
79. Which of the following plant is xerophyte?
A. Acacia B. Cactus C. Hydrilla D. Both A&B
80. Xerophytes have
A. Small roots B. Long roots C. Board leaves D. Many branches
81. “Cheetah Reintroduction Project” was initiated in
A. 2022 B. 2021 C. 2019 D. 2018
82. What is the another name use for Vitamin C?
A. Cyanocobalamin B. Riboflavin C. Ascorbic acid D. Thiamine
84. Plant whose flower and fruit both are eaten
A. Sugar beet B. Ginger C. Sugarcane D. Banana
85. Which of the following vitamin is easily destroyed during cooking?
A. Vitamin C B. Vitamin B C. Vitamin A D. Vitamin D
86. Vitamin necessary for blood clotting
A. A B. E C. C D. K
87. Vitamin promoting wound healing is
A. B B. A C. D D. C
88. Thiamine is the another name for
A. Vitamin B_2 B. Vitamin A C. Vitamin B_1 D. Vitamin B Complex

89. Vitamin D is also called
A. Calciferol B. Ascorbic acid C. Retinol D. Folic acid
90. Which of the following have no energy value?
A. Vitamins B. Minerals C. Fats D. Both A & B
91. Who invented the Crescograph?
A. Gregor Mendel B. Sir Jagadish Chandra Bose.
C. Charls Darwin D. Robert Hooke
92. Which of the following is a connecting link between living and non-living things?
A. Virus B. Fungi C. Human D. Plants
93. Beside the brain, the skull also protects the
A. lungs B. diaphragm C. body's cells D. sense organs
94. Muscle are made of
A. silica B. polyester threads
C. Calcium and phosphorus D. group of cells called fibres
95. How do muscle attached to the bones move the body?
A. automatically B. pull movement
C. push movement only D. push and pull movement
96. Study of muscle is known as
A. Osteology B. Myology C. Kinesiology D. None of these
97. Which of the following joints are immovable joints?
A. Bone of skull B. Tooth sockets of upper jaw
C. Both A and B D. Shoulder joints
98. A controlled process of burning in which mixed garbage is combusted at very high temperature is called _____.
A. incineration B. composting C. inclination D. leading
99. The increasing amount of waste generated globally is viewed as _____.
A. a source of human health problems
B. a source of aesthetic concerns
C. a symptom of industrial inefficiency
D. all of these
100. Which of the following are known as farmer's friend ?
A. Redworms B. Green worms C. Yellow worms D. Black worms