

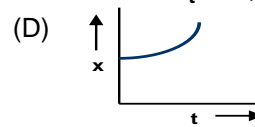
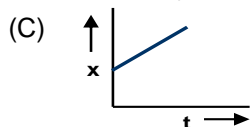
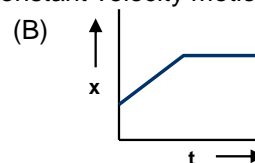
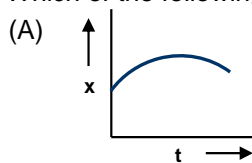
**INTERNATIONAL TALENT SEARCH EXAMINATION  
2024 - 2025**

**CLASS-IX-SCIENCE**

**Set (D)**

1. Viruses are  
(A) Non cellular (B) Multicellular  
(C) Bicellular (D) Unicellular
2. Plant cells are bounded by cell wall which is majorly formed by  
(A) Glucose (B) Cellulose  
(C) Protein (D) Fructose
3. The oxidation of food takes place in  
(A) Peroxisome (B) Lysosome  
(C) Endoplasmic reticulum (D) Mitochondria
4. Which of the following functions is performed by aerenchyma cells?  
(A) transport of materials (B) gaseous exchange  
(C) food storage (D) floating on water surface
5. Histamine secreting cells are found in  
(A) Connective tissue (B) Nervous tissue  
(C) Lungs (D) Muscular tissue
6. Collagen is  
(A) lipid (B) Fibrous protein  
(C) Globular protein (D) Carbohydrate
7. The increasing order of force of attraction between the particles—milk, helium, sponge will be  
(A) Milk < Sponge < Helium (B) Milk = Sponge = Helium  
(C) Helium < Sponge < Milk (D) Helium < Milk < Sponge
8. The movement of pollen grains in water was observed by  
(A) Lavoisier (B) Dalton  
(C) Robert Brown (D) Bohr
9. Fluids are  
(A) Gases (B) Liquids  
(C) Anything which can flow (D) Solids
10. When an object undergoes acceleration  
(A) its speed always increases (B) its velocity always increases  
(C) it always falls towards the earth (D) a force always acts on it

11. Which of the following x–t graphs represent a constant velocity motion?



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12. A ball is thrown from a point A with a speed  $v$  at an angle  $\theta$  with the horizontal. If  $g$  is the acceleration due to gravity the total time taken for it to reach a point B on the same horizontal plane is
- (A)  $\frac{2u \sin \theta}{g}$  (B)  $\frac{u \sin^2 \theta}{g}$   
(C)  $\frac{2u^2 \sin \theta}{g}$  (D)  $\frac{u \sin \theta}{g}$
13. Which species of *Plasmodium* causes cerebral malaria?  
(A) *Plasmodium falciparum* (B) *Plasmodium vivax*  
(C) *Plasmodium ovale* (D) *Plasmodium malariae*
14. Which one is an infectious disease?  
(A) Malaria (B) Diabetes  
(C) Hypertension (D) Cancer
15. T.B. is cured by  
(A) Griseofulvin (B) Streptomycin  
(C) Ubiquinone (D) Encitol
16. One sample of air is found to have 0.03% carbon dioxide and another sample 0.02%. This illustrates that  
(A) Air is a compound  
(B) Air is an element  
(C) Air does not follow the law of constant proportions  
(D) Air is a mixture
17. Which one of the following is not a mixture?  
(A) Distilled water (B) Sugar dissolved in water  
(C) Liquefied petroleum gas (L.P.G.) (D) Gasoline
18. An alloy is  
(A) A compound (B) An allotropic form  
(C) An isomer (D) A mixture
19. A force of 5 N acts on a body of weight 9.8 N. What is the acceleration produced in  $\text{m/s}^2$ .  
(A) 0.51 (B) 1.96  
(C) 5.00 (D) 49.00
20. The engine of a car produces an acceleration of  $6 \text{ m/s}^2$  in the car. If this car pulls a block of the same mass, then the acceleration would be  
(A)  $6 \text{ m/s}^2$  (B)  $12 \text{ m/s}^2$   
(C)  $3 \text{ m/s}^2$  (D)  $1.5 \text{ m/s}^2$
21. In a game of tug of war, a condition of equilibrium exists. Both the teams pull the rope with a force of  $10^4 \text{ N}$ . Tension in the rope is  
(A)  $10^4 \text{ N}$  (B)  $10^8 \text{ N}$   
(C)  $2 \times 10^4 \text{ N}$  (D) zero
22. If the earth shrinks to half of its radius, its mass remaining same, the weight of an object on earth becomes.....times?  
(A) two (B) three

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- (C) four (D) five
23. On decreasing the height of a satellite, its time period will  
(A) decrease (B) increase  
(C) remain unchanged (D) none of these
24. The weight of an astronaut, in an artificial satellite revolving around the earth is  
(A) zero (B) equal to that on the earth  
(C) more than that on the earth (D) less than that on the earth
25. The place for keeping and studying dried plants is called:  
(A) Arboreum (B) Vasculum  
(C) Herbarium (D) Museum
26. 'Organic farming' does not include:  
(A) Green manures (B) Chemical fertilizers  
(C) Crop rotation (D) Compost and farmyard manures
27. Inland fisheries is referred to:  
(A) Culturing fish in freshwater  
(B) Trapping and capturing fishes from sea coast  
(C) Deep sea fisheries  
(D) Extraction of oil from fishes
28. Water is a .....resource.  
(A) Degradable, maintainable (B) Non-degradable, maintainable  
(C) Non renewable (D) Both (B) and (C)
29. Fossil fuel energy is a:  
(A) Non-renewable non-conventional energy source  
(B) Non-renewable conventional energy source  
(C) Renewable non-conventional energy source  
(D) Renewable conventional energy source
30. Green plants of an ecosystem are called:  
(A) Producers (B) Consumers  
(C) Decomposers (D) All of the above
31. Laws of chemical combination were established by  
(A) Theory (B) Experiment  
(C) Hypothesis (D) None
32. Dalton put forward his atomic theory of matter in the year  
(A) 1608 (B) 1708  
(C) 1808 (D) None of these
33. One major drawback of Dalton's theory was, he proposed  
(A) All atoms of an element have the same mass  
(B) Atoms are individual  
(C) Atoms of different element have different masses  
(D) All of them
34. A dam for water reservoir is built thicker at the bottom than at the top because  
(A) Pressure of water is very large at the bottom.  
(B) Water is likely to have more density at bottom.  
(C) Quantity of water at bottom is more.  
(D) none of these

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35. Pressure is applied to an enclosed fluid. It is  
(A) Increased and applied to every part of the fluid.  
(B) Diminished and transmitted to the walls of the container.  
(C) Increased in proportion to the mass of the fluid and then transmitted.  
(D) Transmitted unchanged to every portion of the fluids and walls of container
36. When a body is wholly or partially immersed in a liquid it appears to lose weight. This loss of weight is equal to the weight of  
(A) water displaced by the body  
(B) liquid displaced by the body  
(C) equal volume of water  
(D) equal volume of liquid
37. If the kinetic energy of a body becomes four times of its initial value, then the new momentum will be  
(A) three times its initial value  
(B) four times its initial value  
(C) twice its initial value  
(D) unchanged
38. From a waterfall, water is pouring down at the rate of 100 kg per sec on the blade of a turbine. If the height of the fall be 100 m, the power delivered to the turbine is approximately equal to  
(A) 100 kW  
(B) 1 W  
(C) 1 kW  
(D) 100 W
39. Atomic power station at Tarapore has a generating capacity of 200 M.W. The energy generated in a day by the station is  
(A) 200 MW  
(B) 200 Joule  
(C)  $4800 \times 10^6$  Joule  
(D)  $1728 \times 10^{10}$  Joule
40. The common name for *Ascaris* is:  
(A) Shipworm  
(B) Pinworm  
(C) Tapeworm  
(D) Roundworm
41. Metamerism is a characteristic feature first seen in:  
(A) Chordata  
(B) Annelida  
(C) Mollusca  
(D) Nematoda
42. The excretory organs of Annelida are  
(A) Nephridia  
(B) Statocysts  
(C) Archeocytes  
(D) None of the above
43. Elements having 7 electrons in the valence shell are called  
(A) Halogens  
(B) Chalcogens  
(C) Alkali metals  
(D) Alkaline earths
44. Which of the following consist of particles of matter?  
(A) Alpha rays  
(B) Beta rays

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(C) Cathode rays

(D) All of these

45. Size of the nucleus is

(A)  $10^{-15}$  cm

(B)  $10^{-13}$  cm

(C)  $10^{-10}$  cm

(D)  $10^{-8}$  cm

## Answersheet

1.A	2.B	3.D	4.D	5.A	6.B	7.D	8.C	9.C	10.D	11.C	12.A
13.A	14.A	15.B	16.D	17.A	18.D	19.C	20.C	21.A	22.C	23.A	24.A
25.C	26.B	27.A	28.A	29.B	30.A	31.B	32.C	33.B	34.A	35.D	36.B
37.C	38.A	39.D	40.D	41.B	42.A	43.A	44.D	45.B			

