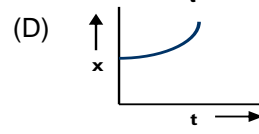
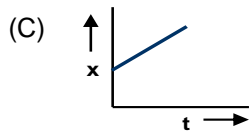
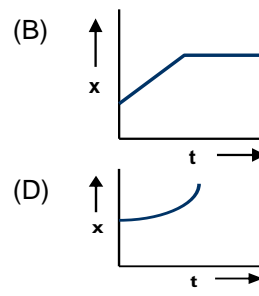
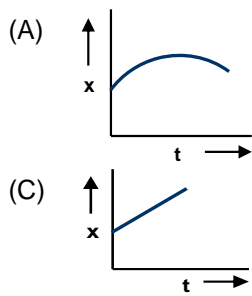


# CLASS-IX-SCIENCE

## SET - A

- Viruses are
  - Non cellular
  - Multicellular
  - Bicellular
  - Unicellular
- Plant cells are bounded by cell wall which is majorly formed by
  - Glucose
  - Cellulose
  - Protein
  - Fructose
- Which of the following functions is performed by aerenchyma cells?
  - transport of materials
  - gaseous exchange
  - food storage
  - floating on water surface
- Histamine secreting cells are found in
  - Connective tissue
  - Nervous tissue
  - Lungs
  - Muscular tissue
- The increasing order of force of attraction between the particles—milk, helium, sponge will be
  - Milk < Sponge < Helium
  - Milk = Sponge = Helium
  - Helium < Sponge < Milk
  - Helium < Milk < Sponge
- The movement of pollen grains in water was observed by
  - Lavoisier
  - Dalton
  - Robert Brown
  - Bohr
- When an object undergoes acceleration
  - its speed always increases
  - its velocity always increases
  - it always falls towards the earth
  - a force always acts on it
- Which of the following x–t graphs represent a constant velocity motion?

# INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025



9. Which species of *Plasmodium* causes cerebral malaria?
- (A) *Plasmodium falciparum* (B) *Plasmodium vivax*  
(C) *Plasmodium ovale* (D) *Plasmodium malariae*
10. Which one is an infectious disease?
- (A) Malaria (B) Diabetes  
(C) Hypertension (D) Cancer
11. 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
12. 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
13. 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
14. 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)  $1.5 \text{ m/s}^2$

# INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

15. 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  
(C) four (D) five
16. On decreasing the height of a satellite, its time period will
- (A) decrease (B) increase  
(C) remain unchanged (D) none of these
17. The place for keeping and studying dried plants is called:
- (A) Arboreum (B) Vasculum  
(C) Herbarium (D) Museum
18. 'Organic farming' does not include:
- (A) Green manures (B) Chemical fertilizers  
(C) Crop rotation (D) Compost and farmyard manures
19. Water is a .....resource.
- (A) Degradable, maintainable (B) Non-degradable, maintainable  
(C) Non renewable (D) Both (B) and (C)
20. 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
21. Laws of chemical combination were established by
- (A) Theory (B) Experiment  
(C) Hypothesis (D) None
22. Dalton put forward his atomic theory of matter in the year
- (A) 1608 (B) 1708  
(C) 1808 (D) None of these
23. 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.

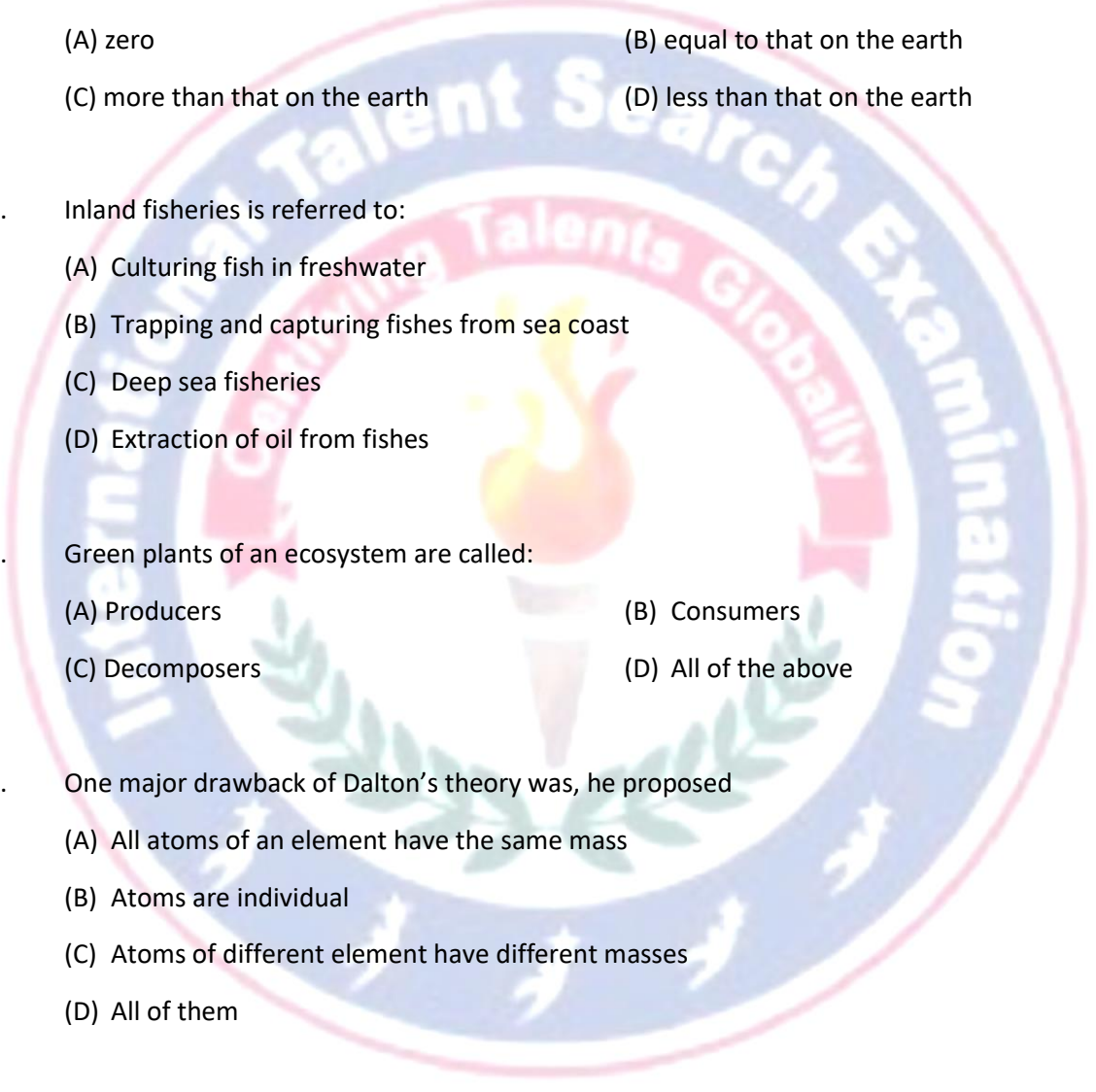
# INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

- (D) none of these
24. 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
25. 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
26. 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
27. The common name for *Ascaris* is:
- (A) Shipworm
  - (B) Pinworm
  - (C) Tapeworm
  - (D) Roundworm
28. Metamerism is a characteristic feature first seen in:
- (A) Chordata
  - (B) Annelida
  - (C) Mollusca
  - (D) Nematoda
29. Elements having 7 electrons in the valence shell are called
- (A) Halogens
  - (B) Chalcogens
  - (C) Alkali metals
  - (D) Alkaline earths
30. Which of the following consist of particles of matter?
- (A) Alpha rays
  - (B) Beta rays
  - (C) Cathode rays
  - (D) All of these
31. The quantities that a travelling wave carry with it

# INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

- (A) mass  
(C) wavelength
- (B) velocity  
(D) energy
32. A sound wave produces 60 compressions and 60 rarefactions in 0.6 sec then the frequency of sound wave is
- (A) 50 Hz  
(C) 200 Hz
- (B) 100 Hz  
(D) none of these.
33. The oxidation of food takes place in
- (A) Peroxisome  
(C) Endoplasmic reticulum
- (B) Lysosome  
(D) Mitochondria
34. Collagen is
- (A) lipid  
(C) Globular protein
- (B) Fibrous protein  
(D) Carbohydrate
35. Fluids are
- (A) Gases  
(C) Anything which can flow
- (B) Liquids  
(D) Solids
36. 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)  $\frac{2u \sin \theta}{g}$   
(C)  $\frac{2u^2 \sin \theta}{g}$
- (B)  $\frac{u \sin^2 \theta}{g}$   
(D)  $\frac{u \sin \theta}{g}$
37. T.B. is cured by
- (A) Griseofulvin  
(C) Ubiquinone
- (B) Streptomycin  
(D) Encitol
38. An alloy is
- (A) A compound  
(C) An isomer
- (B) An allotropic form  
(D) A mixture

# INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

39. In a game of tug of war, a condition of equilibrium exists. Both the teams pull the rope with a force of  $10^4$  N. Tension in the rope is
- (A)  $10^4$  N (B)  $10^8$  N  
(C)  $2 \times 10^4$  N (D) zero
40. 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
41. 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
42. Green plants of an ecosystem are called:
- (A) Producers (B) Consumers  
(C) Decomposers (D) All of the above
43. 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
44. 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
45. Atomic power station at Tarapore has a generating capacity of 200 M.W. The energy generated in a day by the station is
- 

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(A) 200 MW

(B) 200 Joule

(C)  $4800 \times 10^6$  Joule

(D)  $1728 \times 10^{10}$  Joule

