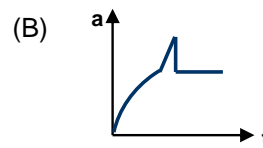
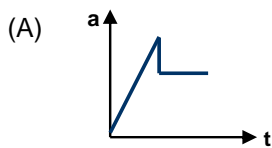


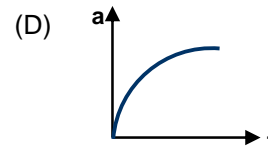
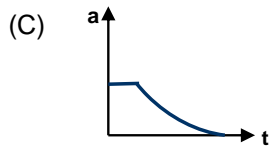
CLASS-IX-SCIENCE

SET - B

1. Which cell organelle is called suicidal bag?
- (A) Centrosome (B) Lysosome
(C) Peroxisome (D) Chromosome
2. Ribosomes are responsible for
- (A) Respiration (B) Photosynthesis
(C) Cell division (D) Protein synthesis
3. Cell body of neurons containing the nucleus and other cell organelles is called
- (A) myofibril (B) dendrite
(C) soma (D) none of these
4. Epidermis is covered with
- (A) cork (B) cuticle
(C) lignin (D) suberin
5. Substance which can undergo sublimation are
- (A) Iodine (B) Camphor
(C) Naphthalene (D) All
6. Humidity of air tells us
- (A) The degree of dampness in air (B) The amount of moisture content in air
(C) The amount of water vapour in air (D) All the above
7. A parachutist steps from an aircraft, falls freely for two second, and then opens his parachute. Which of the following acceleration–time ($a-t$) graphs best represents his downward acceleration 'a' during the first 5 seconds?



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8. For a moving body, at any instant of time

- (A) if the body is not moving, the acceleration is necessarily zero.
- (B) if the body is slowing down, the acceleration is negative.
- (C) if the body is slowing down, the distance is negative.
- (D) if the distance, velocity and acceleration at that instant are known, we can find the displacement at any given time in future.

9. Among the following, an infectious disease is

- (A) Diabetes
- (B) Kwashiorkor
- (C) Hypertension
- (D) Diphtheria

10. An insect which carries a disease causing pathogen is known as

- (A) Vitamin
- (B) Parasite
- (C) Vector
- (D) Prey

11. Tyndall effect is shown by

- (A) CuSO_4 solution
- (B) Sugar solution
- (C) Salt solution
- (D) Mixture of water and milk

12. Which of the following are mixtures?

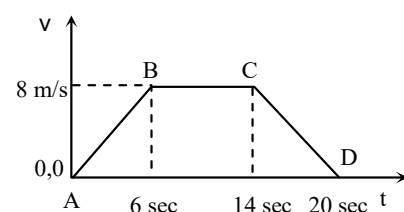
- (A) Limestone
- (B) Water
- (C) Soil
- (D) Sodium

13. When a body stationary

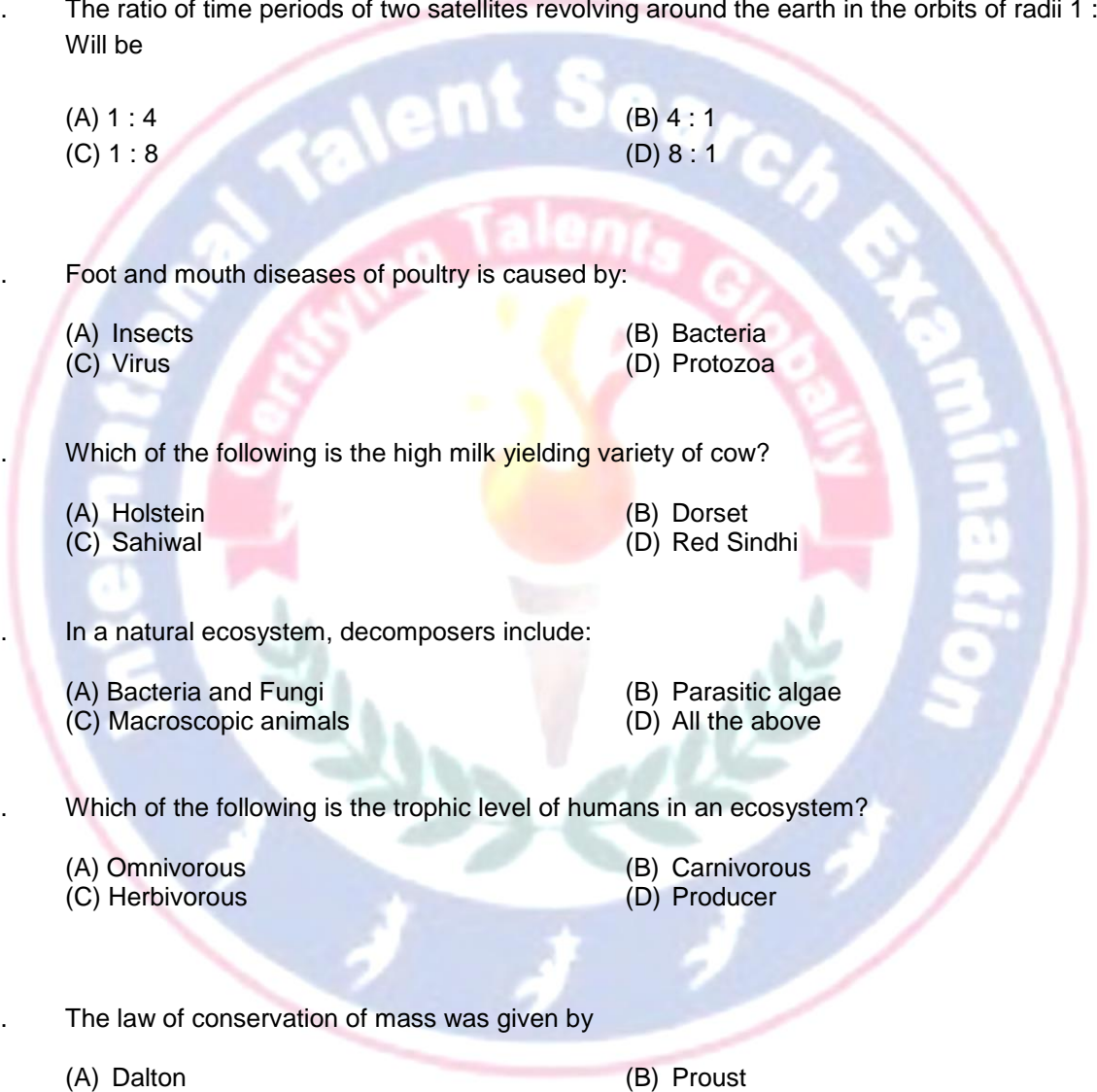
- (A) there is no force acting on it
- (B) the forces acting on it are not in contact with it
- (C) the combination of forces acting on it balances each other
- (D) the body is in vacuum

14. For a 1 kg mass v-t graph is as shown then which of the following is true?

- (A) force between A and B \neq force between C and D
- (B) force between A and B = force between C and D
- (C) force between B and C = 1



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- (D) data insufficient to calculate the force.
15. Weightlessness experienced while orbiting the earth, in spaceships, is the result of
- (A) acceleration (B) inertia
(C) zero gravity (D) centre of gravity
16. The ratio of time periods of two satellites revolving around the earth in the orbits of radii 1 : 4. Will be
- (A) 1 : 4 (B) 4 : 1
(C) 1 : 8 (D) 8 : 1
17. Foot and mouth diseases of poultry is caused by:
- (A) Insects (B) Bacteria
(C) Virus (D) Protozoa
18. Which of the following is the high milk yielding variety of cow?
- (A) Holstein (B) Dorset
(C) Sahiwal (D) Red Sindhi
19. In a natural ecosystem, decomposers include:
- (A) Bacteria and Fungi (B) Parasitic algae
(C) Macroscopic animals (D) All the above
20. Which of the following is the trophic level of humans in an ecosystem?
- (A) Omnivorous (B) Carnivorous
(C) Herbivorous (D) Producer
21. The law of conservation of mass was given by
- (A) Dalton (B) Proust
(C) Lavoisier (D) None of these
22. The law of multiple proportion of mass was given by
- (A) Dalton (B) Proust
(C) Lavoisier (D) None
23. Two pieces of metal immersed in a liquid have equal upthrust on them, then
- 

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- (A) both pieces must have equal weights
(C) both pieces must have equal volume
- (B) both pieces must have equal densities
(D) both are floating to the same depth.
24. A wooden cylinder floats vertically in water with half of its length immersed. The density of wood is
- (A) equal to that of water
(C) double the density of water
- (B) half of density of water
(D) none of these
25. An electric motor creates a tension of 4500 N in hoisting cable and reels it at the rate of 2 m/s. What is the power of electric motor?
- (A) 15 kW
(C) 225 W
- (B) 9 kW
(D) 9000 kW
26. A man of mass 80 Kg runs up a staircase in 15 s. Another man of same mass runs up the staircase in 20 s. The ratio of the power developed by them will be:
- (A) 1
(C) 16/9
- (B) 4/3
(D) None of the above
27. The excretory organs of Annelida are
- (A) Nephridia
(C) Archeocytes
- (B) Statocysts
(D) None of the above
28. The body cavity of Arthropoda is
- (A) Pseudocoel
(C) Haemocoel
- (B) Coelom
(D) Acoelom
29. Size of the nucleus is
- (A) 10^{-15} cm
(C) 10^{-10} cm
- (B) 10^{-13} cm
(D) 10^{-8} cm
30. An atom has a net charge of -1 . It has 18 electrons and 20 neutrons. Its mass number is
- (A) 37
(C) 38
- (B) 35
(D) 20
31. Sonar works on the principal of

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- (A) reflection of sound waves. (B) momentum of sound waves.
(C) energy of sound waves (D) refraction of sound waves.
32. When a wave goes from one medium to another medium. Which quantity does not change
- (A) frequency (B) wavelength
(C) velocity (D) time period
33. Centrosome is found in
- (A) Nucleolus (B) Nucleus
(C) Cytoplasm (D) Chromosome
34. Which of the following cells of plant tissue are nonliving?
- (A) Parenchyma cells (B) Collenchyma cells
(C) Sclerenchyma cells (D) none of these
35. 1 Femtometer is equal to
- (A) 10^{-13} m (B) 10^{-15} m
(C) 10^{-17} m (D) 10^{-12} m
36. The acceleration of a moving body can be found from
- (A) area under velocity – time graph (B) area under distance-time graph
(C) slope of the velocity-time graph (D) slope of the distance-time graph
37. Protein and calories deficiency in infants cause
- (A) Kwashiorkor (B) Scurvy
(C) Rickets (D) Marasmus
38. The poorest conductor of heat among the metals is
- (A) Lead (B) Mercury
(C) Arsenic (D) None of these

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39. A man of mass 90 kg is standing in an elevator whose cable broke suddenly. If the elevator falls freely, the force exerted by the floor on the man is:
- (A) 90 N (B) 90gN
(C) zero (D) any negative value
40. When you move from equator to pole, the value of acceleration due to gravity (g)
- (A) increases (B) decreases
(C) remains the same (D) increases then decreases
41. Karan swiss is a cross breed of:
- (A) Cow (B) Buffalo
(C) Hen (D) None of these
42. The top soil is darker and –
- (A) Is drier than subsoil (B) Is richer is Na and Mg
(C) Is more wet than subsoil (D) Contain more organic matter
43. If 200 g of calcium carbonate (formula weight = 100) occupies a volume of 67.0 ml, what is its density?
- (A) 3.99 g/ml (B) 4.99 g/ml
(C) 1.99 g/ml (D) 2.99 g/ml
44. When a loaded boat enters into the sea water from a river it rises because
- (A) there is more water in sea than in river (B) sea water is denser than river
(C) there is difference of temperature (D) sea is deeper than river
45. Two unequal masses A and B moving along a straight line are brought to rest by equal retarding forces. If A moves twice the time as B but goes only $\frac{1}{3}$ of the distance covered by B before coming to rest, the ratio of their velocities is:
- (A) 1 : 6 (B) 6 : 1
(C) 1 : 2 (D) 2 : 1