

CLASS-IX-SCIENCE

SET - C

- Which one is found only in plant?
(A) Plastid (B) Lysosome
(C) ER (D) Golgi apparatus
- Nucleolus was discovered by :
(A) Schleiden (B) Fontana
(C) Robert Brown (D) Altmann
- Active transport from outside to inside of the cell across a membrane requires:
(A) Cyclic AMP (B) Acetyl choline
(C) ATP (D) Phloroglucinol
- The wall of cork cells are thick due to the presence of
(A) cuticle (B) suberin
(C) lignin (D) none of these
- Which of the following element is present in the matrix of bone?
(A) calcium (B) magnesium
(C) phosphorous (D) all of the above
- Vascular tissues are
(A) xylem (B) phloem
(C) both (A) and (B) (D) none of these
- The property of metal to be drawn into wires is called
(A) Malleability (B) Ductility
(C) Sonorosity (D) Lustre
- Which of the following has no fluidity?
(A) Nitrogen (B) Alcohol
(C) Common salt (D) Helium
- The property of liquids and gases which tells us that their molecules are moving constantly is

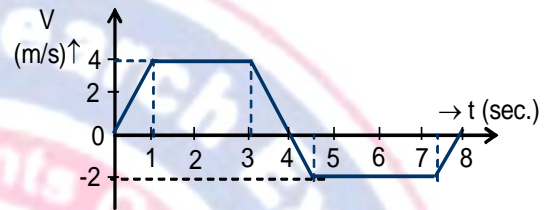
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- (A) Compressibility
(C) Lusterity
- (B) Diffusibility
(D) Stretchbility

10. A body goes 10 km north and 20 km east. What will be the displacement from initial point ?

- (A) 22.36 km
(C) 5 km
- (B) 2 km
(D) 20 km

11. The velocity-time graph of a linear motion is shown in figure. The displacement from the origin after 8 sec., is



- (A) 5 m
(B) 16 m
(C) 8 m
(D) 6 m

12. A ball is released from the top of a tower of height h metres. It takes T seconds to reach the ground. What is the position of the ball in $T/3$ second?

- (A) $h/9$ metres from the ground
(C) $8h/9$ metres from the ground
- (B) $7h/9$ metres from the ground
(D) $17h/18$ metres from the ground

13. Name the virus causing rabies

- (A) Rhabdovirus
(C) Myxovirus
- (B) Retrovirus
(D) Poliomyelitis

14. Typhoid is caused by

- (A) Bacteria
(C) Fungi
- (B) Algae
(D) Virus

15. Which of the following is a mismatch?

- (A) Leprosy – Bacterial infection
(C) Malaria – Protozoan infection
- (B) AIDS – Bacterial infection
(D) Elephantiasis – Nematode infection

16. Chlorine is

- (A) Greenish yellow gas
(C) Violet gas
- (B) Reddish-brown gas
(D) Colourless gas

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17. The following is not true for graphite.
- (A) It is an allotrope of carbon
(B) Good conductor of electricity
(C) High tensile strength
(D) All are true
18. Alloys are an example of a solution of
- (A) Solid in a solid
(B) Solid in a liquid
(C) Liquid in a liquid
(D) Gas in a liquid
19. A scooter of mass 120 kg is moving with a uniform velocity of 108 km/hr. The force required to stop the vehicle in 10 sec is:
- (A) 360 N
(B) 720 N
(C) 180 N
(D) 20×10.8 N
20. A light string passes over a frictionless pulley. To one of its ends a mass of 6 kg is attached. To the other end a mass of 10 kg is attached. The tension in the thread is:
- (A) 24.5 N
(B) 2.45 N
(C) 79 N
(D) 73.5 N
21. A body of mass 10 kg moves at a constant speed of 10 m/s. A constant force then acts for 4 second on the body and gives it a speed of 2 m/s in opposite direction. The force acting on the body is:
- (A) -30 N
(B) -20 N
(C) -10 N
(D) -15 N
22. The time period of an earth satellite in circular orbit is independent of
- (A) the mass of the satellite
(B) radius of its orbit
(C) both the mass of satellite and radius of the orbit
(D) neither the mass of satellite nor the radius of its orbit
23. How much deep inside the earth (**radius R**) should a man go, so that his weight becomes one fourth of that one the earth's surface?
- (A) $\frac{R}{4}$
(B) $\frac{R}{2}$
(C) $\frac{3R}{4}$
(D) $\frac{2R}{3}$

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24. The time period (T) of an artificial satellite of the earth depends on the density (d) of the earth as
- (A) $T \propto d$ (B) $T \propto \sqrt{d}$
(C) $T \propto \frac{1}{\sqrt{d}}$ (D) $T \propto \frac{1}{d}$
25. Plant can be made disease resistant by:
- (A) Breeding (B) Hormones
(C) Colchicine (D) Heat
26. Which of the following is a nitrogenous fertilizer?
- (A) Super phosphate (B) Calcium magnesium phosphate
(C) CAN (Calcium ammonium nitrate) (D) None of these
27. The component that causes eutrophication is:
- (A) Fertilizer (B) Vermicompost
(C) Compost (D) Green manure
28. The living matter in an organism is:
- (A) Biosphere (B) Biomass
(C) Biodiversity (D) Biotic factor
29. Corbett National Park is famous for:
- (A) Tigers (B) Nilgai
(C) Rhinoceros (D) Snakes
30. Name the sanctuaries situated in the state of Assam.
- (A) Sunderban (B) Kaziranga
(C) Gir (D) Periyar
31. The number of molecules in 100 ml each of O_2 , NH_3 and CO_2 at STP are
- (A) $NH_3 > O_2 > CO_2$ (B) $NH_3 < CO_2 < O_2$
(C) $NH_3 < O_2 < CO_2$ (D) The same
32. What weight of $CaCO_3$ (M.W. = 100) shall be neutralized by 100 ml of 0.1 M HCl?
- (A) 0.25 (B) 0.50
(C) 1.0 (D) 0.75

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33. Calculate the molecular mass of $(\text{NH}_4)_2\text{SO}_4 \cdot \text{FeSO}_4 \cdot 6\text{H}_2\text{O}$.
- (A) 362 (B) 372
(C) 382 (D) 392
34. A man sitting in a boat which is floating in a pond. If the man drinks some water from the pond, the level of water in the pond will?
- (A) rise a little (B) fall a little
(C) remain stationary (D) none of these
35. The reading of a spring balance when a block is suspended from it in air is 60 N. This reading is changed to 40 N when the block is submerged in water. The specific gravity of the block is
- (A) 3 (B) 2
(C) 6 (D) $3/2$
36. Two solids A and B float in a liquid. It is observed that A floats with half of volume immersed and B floats with $2/3$ rd of its volume immersed. Ratio of densities of A and B –
- (A) 4 : 3 (B) 2 : 3
(C) 3 : 4 (D) 1 : 3
37. Two bodies with kinetic energies in the ratio 4 : 1 are moving with equal linear momentum. The ratio of their mass is:
- (A) 1 : 2 (B) 1 : 1
(C) 4 : 1 (D) 1 : 4
38. Work done
- (A) can be positive only (B) can be negative only
(C) can be positive or negative (D) can not be assigned a sign.
39. Work is done only when
- (A) applied force is strong
(B) applied force generates motion
(C) applied force is normal to the displacement
(D) force is applied

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40. The slimy material secreted by bacteria is called
- (A) Fimbriae (B) Capsule
(C) Flagella (D) Crystal violet
41. In which of the following, the cells are not organized into tissues?
- (A) Cnidarians (B) Sponges
(C) Flatworms (D) Roundworms
42. Nuclear model of the atom was proposed by
- (A) Thomson (B) Neils Bohr
(C) Moseley (D) Rutherford
43. Cathode rays have
- (A) Only mass (B) Only charge
(C) Neither mass nor charge (D) Both mass and charge
44. The velocity of sound is maximum in
- (A) water (B) helium
(C) oil (D) copper
45. Which of the following sound waves can not be heard by human?
- (A) 20 Hz (B) 500 Hz
(C) 15 Hz (D) 15000 Hz

