

- An aeroplane flies 400 m north and 300 m south and then flies 1200 m upwards then net displacement is:
(A) 1200 m
(B) 1300 m
(C) 1400 m
(D) 1500 m
- An athlete completes one round of a circular track of radius R in 40 sec. What will be his displacement at the end of 2 min. 20 sec:
(A) Zero
(B) $2R$
(C) $2\pi R$
(D) $7\pi R$
- A wheel of radius 1 meter rolls forward half a revolution on a horizontal ground. The magnitude of the displacement of the point of the wheel initially in contact with the ground is:
(A) 2π
(B) $\sqrt{2}\pi$
(C) $\sqrt{\pi^2 + 4}$
(D) π
- A person travels along a straight road for half the distance with velocity v_1 and the remaining half distance with velocity v_2 . The average velocity is given by:
(A) $v_1 v_2$
(B) $\frac{v_2^2}{v_1^2}$
(C) $\frac{v_1 + v_2}{2}$
(D) $\frac{2v_1 v_2}{v_1 + v_2}$
- The displacement-time graph for two particles A and B are straight lines inclined at angles of 30° and 60° with the time axis. The ratio of velocities of $v_A : v_B$ is:
(A) 1 : 2
(B) $1 : \sqrt{3}$
(C) $\sqrt{3} : 1$
(D) 1 : 3
- A neutral atom (Atomic no. > 1) consists of
(A) Only protons
(B) Neutrons + protons
(C) Neutrons + electrons
(D) Neutron + proton + electron
- The nucleus of the atom consists of
(A) Proton and neutron
(B) Proton and electron
(C) Neutron and electron
(D) Proton, neutron and electron
- The size of nucleus is of the order of
(A) $10^{-12}m$
(B) $10^{-8}m$
(C) $10^{-15}m$
(D) $10^{-10}m$
- Positive ions are formed from the neutral atom by the
(A) Increase of nuclear charge
(B) Gain of protons
(C) Loss of electrons
(D) Loss of protons
- The electron is
(A) α -ray particle
(B) β -ray particle
(C) Hydrogen ion
(D) Positron
- Percentage of water in animal body is
(A) 20%
(B) 65%
(C) 55%
(D) 15%
- Water is important for the body of animals in
(A) Reproduction
(B) Keeping the body cooled
(C) Working as solvent
(D) All of them
- Decreasing order of organic compound in protoplasm is
(A) Protein, lipid, Nucleic acid, Vitamin
(B) Protein, Lipid, carbohydrate, Nucleic acid
(C) Carbohydrate, Lipid, Nucleic acid and vitamin
(D) None of these
- Who proposed the name sarcocoe for protoplasm
(A) Van mohl
(B) Corti
(C) Dujardin
(D) Schultz
- Which theory is most acceptable for physical structure of protoplasm
(A) Granular theory
(B) Reticular theory
(C) Alveolar theory
(D) Colloidal theory

Answers	
Q. No.	Ans.
1	A
2	B
3	C
4	D
5	D
6	D
7	A
8	C
9	C
10	B
11	B
12	D
13	B
14	C
15	D