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1. The force between two charges is 120 N. If the distance between the charges is doubled, the force will be

- (a) 60 N
- (b) 30 N
- (c) 40 N
- (d) 15 N

Ans: b

2. The electric field intensity at a point situated 4 metres from a point charge is 200 N/C. If the distance is reduced to 2 metres, the field intensity will be

- (a) 400 N/C
- (b) 600 N/C
- (c) 800 N/C
- (d) 1200 N/C

Ans: c

3. The lines of force due to charged particles are

- (a) always straight
- (b) always curved
- (c) sometimes curved
- (d) none of the above

Ans: b

4. The electric field at a point situated at a distance d from straight charged conductor is

- (a) proportional to d
- (b) inversely proportional to d
- (c) inversely proportional to d^2
- (d) none of the above

Ans: b

5. The direction of electric field due +ve positive charge is .

- (a) away from the charge
- (b) towards the charge
- (c) both (a) and (b)
- (d) none of the above

Ans: a

6. A field line and an equipotential surface are

- (a) always parallel
- (b) always at 90°
- (c) inclined at any angle θ
- (d) none of the above

Ans: b

7. The ability of charged bodies to exert force on one another is attributed to the existence of

- (a) electrons
- (b) protons
- (c) neutrons
- (d) electric field

Ans: d

8. If the sheet of a bakelite is inserted between the plates of an air capacitor, the capacitance will

- (a) decrease
- (b) increase
- (c) remains unchanged
- (d) become zero

Ans: b

9. A capacitor stores 0.24 coulombs at 10 volts. Its capacitance is (a) 0.024 F

- (b) 0.12 F
- (c) 0.6 F
- (d) 0.8 F

Ans: a

10. For making a capacitor, it is better to select a dielectric having

- (a) low permittivity
- (b) high permittivity
- (c) permittivity same as that of air
- (d) permittivity slightly more than that of air

Ans: b