

# BSEB 12th Physics Question Paper 2025

## SECTION - A

### Objective Type Questions

1. Two equal positive point charges of  $1\text{ }\mu\text{C}$  charge are kept at a distance of 1 metre in air. The electric potential energy of the system will be

- (A) 1 joule
- (B) 1 eV
- (C)  $9\times 10^{-3}\text{ j}$
- (d) zero

2. Which one of the following is a unit of capacity?

- (A) Coulomb
- (B) ampere
- (C) volt
- (D) coulomb/volt

3. The capacity of any condenser does not depend upon

- (A) shape of plates
- (B) size of plates
- (C) charge on plates
- (D) distance between plates

4. The electric field on the outer surface of a charged conductor is

- (A) parallel to the surface
- (B) perpendicular to the surface
- (C) at  $45^\circ$  angle to the surface
- (D) zero

5. If a conductor is placed in an external electric field, the field inside the conductor will be

- (A) zero
- (B) equal to the external field

(C) twice the external field

(D) half the external field

