#### THREE MARK QUESTIONS

#### Write any three properties of equipotential surface.

Ann: 0 Two equipotential surfaces never interrsect.

- ii) Work done in moving a charge between two points on equipotential surface is STREET, STREET,
- 111) Electric field is always normal to equipotential surface.

#### Derive the relation connecting electric field and electric potential.

Anse: Let a - course charge



Work done dw - Fdx Territoria (183)

I. F = q. H. -ver sign shows that F is toposite to work.]

Hy definition of potential difference,

$$dV = \frac{dw}{q_0} = \frac{-q_0 E}{q_0} dx \text{ [by Eqn. (0)]}$$
  
$$dV = -E dx$$

$$H = \frac{-dV}{dx}$$

#### 10. Derive the expression for potential energy of a system of two charges in the absence of external electric field.

We shall consider a region where there is no field. All residences

Let us bring u. from ... to point A.

Work done W. = 0 1 - no field !

Potential at point B. 
$$V = \frac{1}{4\pi\epsilon_n} \frac{\mathbf{q}_1}{4} \dots (1)$$



Now, being q, from ... to point B.

Work done, 
$$W_0 = Vq_0 = \frac{1}{4\pi n_0} \frac{q_0 \cdot q_0}{r}$$
. [From Equation (1)]

Total work done, 
$$W = W_i + W_j$$
  
=  $0 + \frac{1}{4\pi c_n} \frac{g_i}{r} \frac{q_j}{r}$ 

z. potential energy = total workdone.

$$U = \frac{1}{4\pi e_a} \frac{q_a q_a}{r}$$

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**Albert A Gayle** 

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