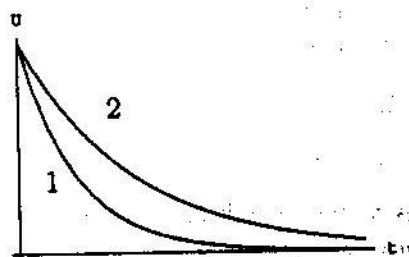


9. If the electric flux through a closed surface S is equal to zero then
- (A) the volume charge density is zero everywhere inside the surface S .
 - (B) the electric field at every point on S is zero.
 - (C) the electric field is zero at every point inside S .
 - (D) the net charge enclosed by S is zero.

10. The figure shows the graphs of the total electromagnetic energy U in two LCR circuits with identical capacitors. From the graphs we can safely conclude that

- (A) $R_1 L_2 > R_2 L_1$.
- (B) $R_2 L_1 > R_1 L_2$.
- (C) $R_1 L_1 > R_2 L_2$.
- (D) $R_2 L_2 > R_1 L_1$.



11. Plane polarised light is incident on a polariser kept at an angle of 30° with respect to the plane of polarisation. The ratio of the transmitted intensity to the incident intensity is
- (A) 0.75.
 - (B) 0.25.
 - (C) 0.87.
 - (D) 0.
12. In Young's double slit experiment if a thin transparent plastic layer is placed over the lower slit, the interference pattern on the screen will
- (A) move up.
 - (B) move down.
 - (C) not move at all.
 - (D) disappear.