

- i. The value of total resistance of the wire is
 a) 25ohms b) 30ohms c) 35ohms d) 15ohms
- ii. The line power loss in the form of heat is: (in kW)
 a) 550 b) 650 c) 600 d) 700
- iii. How much power must the plant supply, assuming there is negligible power loss due to leakage?
 a) 600kW b) 1600kW c) 500W d) 1400kW
- iv. The voltage drop in the power line is
 a) 1700V b) 3000V c) 2000V d) 2800V

30. Electric flux through a closed surface $S = q / \epsilon_0$
 q = total charge enclosed by S . The law implies that the total electric flux through a closed surface is zero if no charge is enclosed by the surface.

Answer the following

- i. A charge Q is enclosed by a Gaussian spherical surface of radius R . If the radius is doubled, then the outward electric flux will
 (a) increase four times (b) be reduced to half (c) remain the same (d) be doubled
- ii. What is the flux through a cube of side a if a point charge of q is at one of its corner?
 (a) $2 q / \epsilon_0$ (b) $q / 8 \epsilon_0$ (c) q / ϵ_0 (d) $(q / 2 \epsilon_0) / 6 a^2$
- iii. A point charge $+q$ is placed at the centre of a cube of side l . The electric flux emerging from the cube is
 (a) $6 q l^2 / \epsilon_0$ (b) $q / 6 l^2 \epsilon_0$ (c) zero (d) q / ϵ_0
- iv. A charge $Q \mu C$ is placed at the centre of a cube, the flux coming out from each face will be
 (a) $Q / 6 \epsilon_0 \times 10^6$ (b) $Q / 6 \epsilon_0 \times 10^{-5}$ (c) $Q / 24 \epsilon_0$ (d) $Q / 8 \epsilon_0$

SECTION- E

31. Answer the following

- (i) Derive an expression for the force between two long parallel current carrying conductors.
- (ii) Use this expression to define SI unit of current.
- (iii) A rectangular loop of sides 25 cm and 10 cm carrying a current of 15 A is placed with its longer side parallel to a long straight conductor 2 cm apart carrying a current of 25 A. What is the net force on the loop?

32. Answer the following

- (i) Determine the current in each branch of the network shown.



- (ii) A silver wire has a resistance of 2.1Ω at $27.5^\circ C$, and a resistance of 2.7Ω at $100^\circ C$. Determine the temperature coefficient of resistivity of silver

33. Answer the following

- (i) Derive an expression for mutual inductance of two long co-axial solenoids of same length 'l'.

Half Yearly 2physics Question Paper

VM Jensen



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