



Ch-24

Electromagnetic Induction

Practice Sheet 01

Q1. The magnetic flux linked with a coil at any instant ' t ' is given by $\phi = 5t^2 - 100t + 300$. the e.m.f. induced in the coil at $t = 2$ sec is

- (a) -40 V
- (b) 40 V
- (c) 140 V
- (d) 300 V

Q2. A coil has 2000 turns and area of 70 cm^2 . The magnetic field perpendicular to the plane of the coil is 0.3 Wb/m^2 and takes 0.1 sec to rotate through 180° . The value of the induced e.m.f. will be

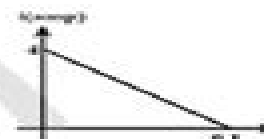
- (a) 8.4 V
- (b) 84 V
- (c) 42 V
- (d) 4.2 V

Q3. A magnetic field of flux density 10 T acts normal to a 50 turns coil of 100 cm^2 area. Find the emf induced in it if the coil is removed from the field in $1/20 \text{ s}$.

Q4. A 10Ω resistance coil has 1000 turns and at a time $5.5 \times 10^{-4} \text{ Wb}$ of flux passes through it. If the flux falls to $0.5 \times 10^{-4} \text{ Wb}$ in 0.1 second, find the emf generated in volts and the charge flown through the coil in coulombs.

Q5. Some magnetic flux is changed from a coil of resistance 10 ohm . As a result an induced current is developed in it, which varies with time as shown in figure. The magnitude of change in flux through the coil in webers is

- (a) 2
- (b) 4
- (c) 6
- (d) None of these



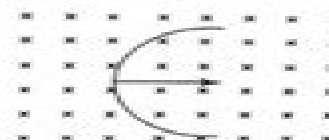
Q6. A rectangular loop of area $20 \text{ cm} \times 30 \text{ cm}$ is placed in a magnetic field of 0.3 T with its plane

- (a) normal to the field
- (b) inclined 30° to the field and
- (c) parallel to the field.

Find the flux linked with the coil in each case.

Q7. A straight wire of length L is bent into a semicircle. It is moved in a uniform magnetic field with speed v with diameter perpendicular to the field. The induced emf between the ends of the wire is

- (a) BLv
- (b) $2BLv$
- (c) $2\pi BLv$
- (d) $\frac{2BvL}{\pi}$



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Yan Bai



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