

31. The alternating current has frequency of 106 Hz in such a way that time period for completion of cycle is

- [A.](#) 1?s [B.](#) 1.5?s  
[C.](#) 106sec [D.](#) 1sec

[Answer & Explanation](#)

**Answer:** Option A

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32. Long distance transmission is easy for

- [A.](#) D.C voltage [B.](#) A.C voltage  
[C.](#) Half A.C voltage [D.](#) Half D.C voltage

[Answer & Explanation](#)

**Answer:** Option B

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33. Which one of the following devices does not function like an electric motor?

- [A.](#) Galvanometer [B.](#) Ammeter  
[C.](#) Voltmeter [D.](#) Transformer

[Answer & Explanation](#)

**Answer:** Option D

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34. The out put voltage of a transformer is 3 times the input voltage then turns ratio will be

- [A.](#) 3-Jan [B.](#) 3  
[C.](#) 1 [D.](#) 6

[Answer & Explanation](#)

**Answer:** Option B

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35. For long distance transmission the transformer used is

- [A.](#) Step down [B.](#) Input voltage and output voltage remain same  
[C.](#) Step up [D.](#) Amplifier is used

[Answer & Explanation](#)

**Answer:** Option C

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36. Self inductance of a long solenoid is

[A.](#)  $\mu_0 n^2 A$

[B.](#)  $\mu_0 n^2 A / l$

[C.](#)  $\mu_0 N^2 A$

[D.](#)  $BA$

[Answer & Explanation](#)

**Answer:** Option A

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37. An electric current induced within the body of a conductor when that conductor either moves through a non uniform magnetic field or in a region where there is a change in magnetic flux is called

[A.](#) Induced current

[B.](#) Eddy current

[C.](#) Back emf

[D.](#) None of the above

[Answer & Explanation](#)

**Answer:** Option B

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38. Lagging of changes in the magnetization of a substance behind changes in the magnetic field as the magnetic field is varied is known as magnetic

[A.](#) Retaintivity

[B.](#) Permeability

[C.](#) Flux

[D.](#) Hysteresis

[Answer & Explanation](#)

**Answer:** Option D

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39. Transformer works on the principle of

[A.](#) Lenzs law

[B.](#) Faradays law

[C.](#) Mutual induction

[D.](#) Law of conservation of power

[Answer & Explanation](#)

**Answer:** Option C

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40. When the motor is at its maximum speed then back emf will be

[A.](#) Maximum

[B.](#) Zero

[C.](#) Intermediate values

[D.](#) No back emf

[Answer & Explanation](#)

**Answer:** Option A

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