

Electrical Alternators Objective Questions & Answers Pdf

1. The speed of a 4 pole 60 Hz synchronous machine will be

- a. 1800 r.p.m.**
- b. 2400 r.p.m.**
- c. 3000 r.p.m.**
- d. 3600 r.p.m.**

Ans: A

2. What is the largest size of alternator being manufactured in India?

- a. 500 MW**
- b. 250 MW**
- c. 210 MW**
- d. 110 MW**

Ans: A

3. Which of the following organizations is engaged in the manufacture of large size alternators for power plants in India?

- a. Department of Science and Technology**
- b. Electricity Authority of India**
- c. National Thermal Power Corporation Ltd**
- d. Bharat Heavy Electricals Ltd.**

Ams: D

4. Hydrogen is used in large alternators mainly to

- a. reduce distortion of waveform**
- b. cool the machine**
- c. strengthen the magnetic field**
- d. reduce eddy current losses**

Ans: B

5. An alternator coupled to which prime mover will usually have the highest rotating speed?

- a. steam engine**
- b. reciprocating diesel engine**
- c. francis turbine**
- d. steam turbine**

Ans: D

6. Salient pole type alternators are generally used on

- a. low voltage alternators**
- b. hydrogen cooled prime movers**
- c. high speed prime movers**
- d. low and medium speed prime movers**

Ans: D

7. Turbo alternators are generally used to run at

- a. 1500 r.p.m.**
- b. 3000 r.p.m.**
- c. 5000 r.p.m.**
- d. 15000 r.p.m.**

Ans: B

8. The rotor preferred for alternators applied to hydraulic turbines are

- a. salient pole type**
- b. cylindrical rotor type**
- c. solid rotor type**
- d. any of the above**

Ans: A

9. Which of the following prime mover is least efficient?

- a. gas turbine**
- b. petrol turbine**
- c. diesel turbine**
- d. steam engine**

Ans: D

10. Harmonic component of generated e.m.f. will be more in

- a. short pitch coil**
- b. full pitch coil**
- c. long pitch coil**
- d. none of the above coils**

Ans: B

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