

GOVT. POLYTECHNIC, BHADRAK

Class Test : 1st

Branch: Electrical engg. Session: 2022- 23 Semester: 5th

SUB: EC - II F.M = 15 Time- 20mins Date : _____

Name _____ Regd. No.- _____

All questions are compulsory.

Q.1 Synchronous generator is also known as:

- a. Degenerator b. Alternator
c. Decoupler d. Magnetostat

Q.2 Rotor winding of alternator is also known as:

- a. Field winding b. armature winding c. salient winding d. non- salient winding

Q.3 A 4 pole, 50 Hz alternator will turn at:

- a. 1500rpm b. 3000rpm c. 6000rpm d. 12000rpm

Q.4 The type of alternator used in hydropower stations:

- a. Turbo b. Salient pole c. Non-salient d. None of the above

Q.5 Drop in alternator frequency is resolved by:

- a. Using voltage regulator b. Employing amortisseur windings
 c. Raising speed of prime mover d. None of these

Q.6 With the increase in speed of alternator increases, the frequency:

- a. Increases b. Decreases c. Remains same

Q.7 The alternator converts _____ into _____ :

- a. Mechanical energy, Mechanical energy b. Electrical energy, Electrical energy
c. Electrical energy, Mechanical energy d. Mechanical energy, Electrical energy

1/12

Q.8 Very often alternators are connected in parallel because:

- a. It makes repairing convenient
- b. It is easy to install or remove units when necessary
- c. increases reliability of power system
- d. All of these

Q.9 If two parallel operating alternators, the power input to one alternator is cut-off, the alternator will:

- a. Run as synchronous motor in opposite direction
- b. Immediately stop
- c. Run as synchronous motor in same direction
- d. Burn

Q.10 A stationery alternator should not be connected to the live bus-bar:

- a. True
- b. False

Q.11 Two bright and one dark lamp method is used for:

- a. Synchronizing single phase alternators
- b. Synchronizing three phase alternators
- c. Load transference
- d. Determination of phase sequence

Q.12 An induction motor works with

- a. DC only
- b. AC only
- c. Both AC & DC
- d. None of the above

Q.13 The stator core of a 3- phase induction motor is laminated in order to reduce the

- a. Eddy current loss
- b. Hysteresis loss
- c. both (a) & (b)
- d. weight of the stator

Q.14 In a 3-phase squirrel cage induction motor

- a. Rotor conductors are short circuited through end
- b. Rotor conductor ends are short circuited through slip rings
- c. Rotor conductors are kept open
- d. None of the above

Q.15 In a 3-phase slip ring induction motor, the rotor winding terminals are brought out through slip rings to

- a. Connect extra resistance across them during starting
- b. Connect them either in star or in delta as per need
- c. Connect to 3-phase ac supply
- d. Close the rotor circuit externally

True