

Govt. Polytechnic, Bhadrak

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Important questions

Branch : Electrical Engg. Semester -5th

SUB : Energy Conversion - II

Q.1 Define Pitch factor.

Q.2 Define Distribution factor.

Q.3 Derive emf equation of an alternator.

Q.4 Explain 3 dark & 2 bright 1 dark lamp method of synchronization of 3 phase alternators.

Q.5 Explain synchronous impedance method or emf method to determine voltage regulation of an alternator.

Q.6 Define voltage regulation of an alternator.

Q.7 What are the essential conditions for parallel operation of 3phase alternators?

Q.8 Describe the working principle of synchronous motor.

Q.9 Define hunting.

Q.10 Write 2 no. of sources of harmonics.

Q.11 Write 4 no. of applications of synchronous motor.

Q.12 What are the starting methods for starting of 3 phase induction motor?

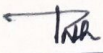
Q.13 What are the starting methods for starting of synchronous motor ?

Q.14 State Ferrari's principle.

Q.15 Explain Double field revolving theory .

Q.17 Define Cogging.

Q.18 Define Crawling.



Q.19 Define slip & slip speed of induction motor.

Q.20 Define Synchronous speed.

Q.21 Describe the working principle and the torque- speed characteristic of capacitor start capacitor run induction motor.

Q.22 Describe the working principle and the torque- speed characteristic of Shaded pole induction motor.

Q.23 Describe the working principle, running characteristic and application of single phase series motor.

Q.24 Explain the working principle and application of Universal motor.

Q.25 Explain the working principle and application of Stepper motor.

Q.26 What are the essential conditions for parallel operation of 3phase Transformers?

Q.27 Write the maintenance schedule of power transformer .

Q.28 Describe the working principle and the torque- speed characteristic of permanent capacitor motor.

Q.29 Explain the O.C and S.C. test of an alternator.

Q.30 Define armature reaction and Explain its effect at different p.f of load in an alternator.

TNR