

B.Sc. DEGREE EXAMINATION, ODD SEMESTER 2020
III Year V Semester
Electromagnetism

Max.marks :25

Answer any **FIVE** questions ($5 \times 5 = 25$) Marks

1. Power factor of an A.C. circuit is 0.5. What will be the phase difference between voltage and current in the circuit?
2. State Faraday's law of electromagnetic induction.
3. Explain the principle of an AC induction motor.
4. What are the differences between DC dynamo and DC motor?
5. State the Maxwell's equation in material media.
6. List out the uses of Eddy currents.
7. Three inductors of 60mH, 120mH and 75mH respectively, are connected together in a parallel combination with no mutual inductance between them. Calculate the effective inductance of the parallel combination in mill henries.