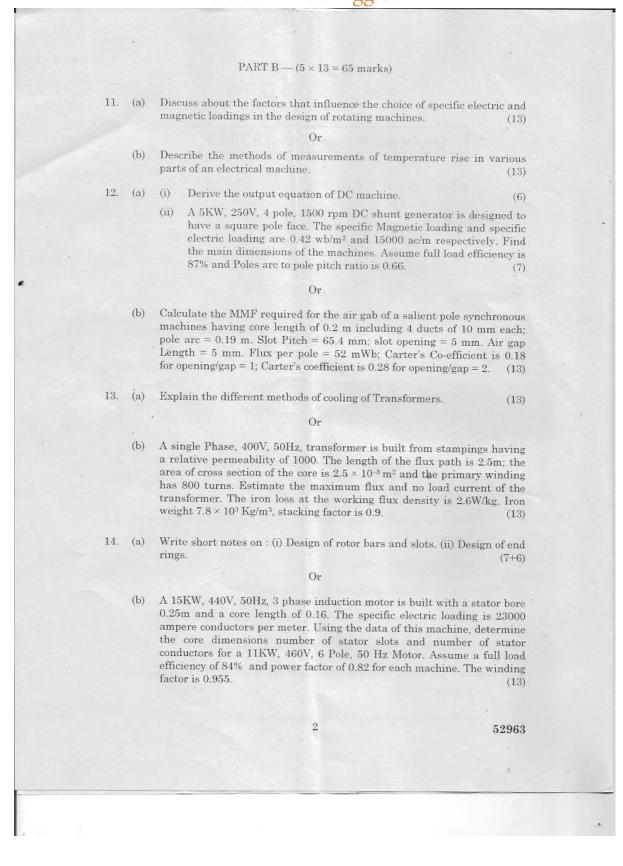
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Reg. No. :
Question Paper Code: 52963
B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.
Sixth Semester
Electrical and Electronics Engineering
EE 6604 – DESIGN OF ELECTRICAL MACHINES
(Regulation 2013)
(Common to PTEE 6604 – Design of Electrical Machines for B.E. (Part – Time) – Fifth Semester – Electrical and Electronics Engineering Regulation 2014)
Time: Three hours Maximum: 100 marks
Answer ALL questions.
PART A — $(10 \times 2 = 20 \text{ marks})$
1. Define Space Factor.
2. What are the Electrical properties of insulating materials?
3. Write down the Carter's Coefficient of D.C Machine.
4. What are the factors to be considered in the design of commutator of a D.C Machine?
5. Define Window Space Factor.
6. What are the methods of cooling of transformer?
7. Write down the equation for output Co-efficient in an induction motor.
8. Why fractional slot winding is not used for induction motor?
9. What are the factors that influence the choice of specific magnetic loading in a synchronous machine?
10. Define Short Circuit Ratio of a synchronous machine.

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