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Question Paper Code : 20182

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

Second Semester

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Mechanical Engineering

BE 3251 — BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

(Common to : Aeronautical Engineering/Aerospace Engineering/ Automobile Engineering/Biomedical Engineering/Computer Science and Design/ Computer Science and Engineering/Computer Science and Engineering (Artificial Intelligence and Machine Learning)/Computer Science and Engineering (Cyber Security)/Computer and Communication Engineering/Industrial Engineering/Industrial Engineering and Management/Manufacturing Engineering/ Marine Engineering/Materials Science and Engineering/Mechanical Engineering (Sandwich)/ Medical Electronics/Production Engineering/ Safety and Fire Engineering/Artificial Intelligence and Data Science/ Computer Science and Business Systems/Information Technology)

(Regulations 2021)

(Also common to PTBE 3251 for B.E. (Part-Time) for Mechanical Engineering – Regulations 2023)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the factors affecting resistance?
2. Define the terms :
 - (a) Form Factor
 - (b) Peak Factor.
3. Distinguish between DC Motor and DC Generator.
4. Formulate the EMF equation for Transformer.
5. Define Knee voltage or Junction barrier voltage for PN Junction diode.
6. List the applications of IGBTs.
7. Convert (634)₈ to binary.
8. Give the truth table of XOR gate.
9. List the functional elements of the measurement systems.
10. What is the use of energy meter?

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Siddappa N.Byrareddy



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