

2E3206

Roll No. _____

Total No. of Pages: **3**

2E3206

B. Tech. II - Sem. (Main / Back) Exam., - 2023
2FY3 – 07 Basic Mechanical Engineering

Time: 3 Hours

Maximum Marks: 70

Instructions to Candidates:

Attempt all ten questions from Part A, five questions out of seven questions from Part B and three questions out of five questions from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.

*Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)*

1. NIL

2. NIL

PART – A

[10×2=20]

(Answer should be given up to 25 words only)

All questions are compulsory

- Q.1 Explain in brief different types of steam turbines.
- Q.2 What is priming in pumps? How it is done?
- Q.3 Explain the specific function of fuel pump and injector in a diesel engine.
- Q.4 Explain scavenging in a 2-stroke engine.
- Q.5 State the desirable properties of refrigerants and also list few of the refrigerants used in Air Conditioning.
- Q.6 What are the advantages of rope drive as compared to belt drive?

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