

Total No. of Questions – [06]

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G.R. No.	
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PAPER CODE	P122-252 PSE/ESR
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May2022 / INSEM+ENDSEM - DESIGN ENGG
F. Y. M. TECH. (Mechanical) (SEMESTER -II)
COURSE NAME: COMPUTER AIDED DESIGN
COURSE CODE: MEPA12202
(PATTERN 2020)

Time: [3 Hours]

[Max. Marks: 60]

(*) Instructions to candidates:

- 1) All Questions are compulsory
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

- Q.1) a) Describe the following input devices 6 Marks
i) Digitizer ii) Tablet iii) Mouse iv) Light Pen
b) Write a note on Mainframe, Micro and Super computer? 4 Marks
- Q.2) a) Explain Local area Networks and Metropolitan Area Networks 6 Marks
in detail?
b) Explain applications and benefits of networking? 4 Marks
- Q.3) a) Write a note on Geometric mapping? 6 Marks
b) Explain shear geometric transformation? 4 Marks
- Q.4) a) Explain Bezier Curve and its application? 6 Marks
b) Write a note on Synthetic curves? 4 Marks
- Q.5) a) Compare the performance of Constructive solid geometry 6 Marks
(CSG) and Boundaryrepresentation approach?
b) What is parametric solid modeling? Explain in details? 4 Marks
- Q.6) a) What are the different types of simulation approach in FEA? 6 Marks
Explain the steps ofstatic structural analysis
b) What is shape function in FEM? Explain linear shape 4 Marks
function?