

Code: 17MEMD2T6C

**I M.Tech - II Semester – Regular/Supplementary Examinations
OCTOBER - 2020**

**CONCURRENT ENGINEERING
(MACHINE DESIGN)**

Duration: 3 hours

Max. Marks: 60

Answer the following questions.

1. a) Discuss organizing for CE. 7 M

b) Explain the collaborative product development tools box
for CE. 8 M

(OR)

2. a) Write the basic goals of concurrent engineering and explain
various elements of concurrent engineering. 7 M

b) Discuss the objectives and limitations of IPD model. 8 M

3. a) What do you mean by modality of concurrent engineering
design? Explain it briefly. 8 M

b) Discuss automated analysis idealization control in CE.
7 M

(OR)

4. a) Explain the life cycle design used for different products in an organization. 8 M
- b) How the CE is useful during the optimal structural design? 7 M
5. a) Explain an intelligent design for manufacturing system in detail. 10 M
- b) Write a note on qualitative physical approach. 5 M
- (OR)
6. Explain modeling and reasoning for computer based assembly planning. 15 M
7. a) Write down different steps for evaluating design for manufacturing cost. 8 M
- b) Describe the concept of cooperative negotiation in concurrent engineering design. 7 M
- (OR)
8. Write short note on:
- a) Decomposition in concurrent design. 8 M
- b) Concurrent mechanical design. 7 M