
B.E. (Full Time) End Semester DEGREE EXAMINATION, APRIL 2011

Eighth Semester

Manufacturing Engineering

MN 482 – DIGITAL MANUFACTURING TECHNOLOGY

(Regulation 2004)

Time: 3 Hours Answer ALL Questions Max.Marks:100

PART – A (10 X 2 = 20)

1. Draw the flow chart defining manufacturing system in a motorcycle industry.
2. What is called 'digital factory'.
3. Define concurrent engineering
4. Enumerate the different elements of simultaneous engineering.
5. List the three key points to understand Knowledge
6. Write the Advantages of semantic networks.
7. What is need for Rapid prototyping?
8. In what way solid ground curing differ from other process.
9. What is a search engine?
10. What is an IP address? Explain with an example.

PART – B (5 X 16 = 80)

11. (a). Explain ' virtual CNC turning centre' (8)

    (b). Discuss on Product layout and Process layout give suitable example. (8)

12. (a). Discuss various design considerations for form design. (16)

    (OR)

    (b).(i). Discuss DFM / DFA (10)

    (ii). Write short notes on

    (I) Design for quality (2)

(II) Design for product cost (2)

(III) Design for life cycle (2)

13. (a)(i). Draw the flow chart for algorithm of risk detection in knowledge sharing System (8)

(ii). Enumerate the values of knowledge engineering with example. (8)

(OR)

(b)(i). Discuss the general procedure for knowledge sharing (8)

(ii). Discuss the structure, operation and knowledge acquisition of expert systems. (8)

14. (a). Explain the SLA process with a neat sketch. Mention its advantages, limitations and applications.

(OR)

(b). Describe the FDM process with a suitable example.

15. (a) Discuss the following

(I). E- commerce (8)

(II). E – business. (8)

(OR)

(b).(i). Write in detail the steps in website development process. (8)

(ii). Write short notes on

(I). Web portals (4)

(II). Web transaction (4)
