

B.E. Eighth Semester (Mechanical Engineering) (CGS)

10889 : Professional Elective-II : Advanced Manufacturing System : 8 ME 01

P. Pages : 2

AU - 2982

Time : Three Hours



Max. Marks : 80

- Notes :
1. Answer **three** question from Section A and **three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Diagrams and chemical equations should be given wherever necessary.
 5. Retain the construction lines.
 6. Illustrate your answer necessary with the help of neat sketches.
 7. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION – A

1. a) State the benefits and limitations of TQM. 7
b) Discuss how customer satisfaction can be achieved by TQM. 7

OR

2. a) What are the stages to be followed for implementation of TQM. 7
b) Describe various elements of TQM. 7
3. a) What leads to TPM excellence? Which are TPM development activities? 7
b) Justify the statement "Maintenance and Safety go hand to hand". 6

OR

4. a) Discuss the concept of "Iinshitsu- Hozen". 7
b) Justify the statement "Down time cost makes the machine maintenance expensive". 6
5. a) Discuss the factors affecting Re- Engineering. 7
b) State the characteristics of BPR. 6

OR

6. a) What are limitation of Business process Re- Engineering. 7
b) Explain Re- Engineering and Rethinking. 6

SECTION – B

7. a) Define value. State how it can be increased. Describe various types of values. 7
b) "Value Engineering is a powerful tool for cost reduction" Justify. 7

OR

8. a) What are the steps involved in value analysis? 7
b) What is value engineering? Describe the importance of VE in industries. 7
9. a) Discuss concurrent product development cycle in brief. 7
b) Differentiate between Sequential engineering and Concurrent engineering. 6

OR

10. a) Discuss the goals of Concurrent engineering. 7
b) Discuss the Design for Manufacturing guidelines. 6
11. a) Explain the working of a Dual- Card KANBAN system. 7
b) What are the key changes made to a manufacturing system for JIT manufacturing? 6

OR

12. a) Briefly distinguish between JIT manufacturing and JIT production. 7
b) What are three major components of JIT manufacturing. 6

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