Printed Pages: 3 EMT-801

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 141801 Roll No.

B.TECH.

Theory Examination (Semester-VIII) 2015-16

ADVANCED MANUFACTURING SYSTEM

Time : 3 Hours *Max. Marks : 100*

Section-A

Q1. **Attempt all parts. Write answer of each part in short.**

(2×10=20)

(a) What is CAM?

(b) What do you mean by Total Quality Management?

(c) Write the full form of CNC and PLC.

(d) What is inventory control?

(e) Define "Macro Statements".

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(f)   Write the kinds of costs.

(g)   What is Part programming?

(h)   Describe JIT.

(i)   What do you mean by Concurrent Engineering?

(j)   What is DNC?

Section-B

Q2. Attempt any 5 questions from this section.   (10×5=50)

(a)   What is robot? Classify the ROBOT according to degree of freedom.

(b)   What do you mean by CIMS? Write down the benefits of CIMS.

(c)   Define CNC machine. Explain the advantages of CNC machine.

(d)   What is automation? Explain various ty pes of Automation.

(e)   Discuss MRP. Write down the benefits of MRP.

(f) What do you mean by Group Technology? Enlist the various advantages of Group Technology.

(g) Explain AGV and its role in automated material handling.

(h) What is Break Even Point? Write the assumptions used in BEA and its applications.

Section-C

Note: Attempt any 2 questions from this section. (15×2=30)

Q3. Define FMS. Explain various elements of FMS. Mention advantages and limitations of FMS.

Q4. Explain the followings:

(a) Acceptance Sampling

(b) Quality Assurance

(c) Control Charts

Q5. With the help of suitable examples describes the various statements used in APT language.