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Roll No

ME - 804

B.E. VIII Semester

Examination, June 2016

CAD/CAM/CIM

Time: Three Hours

Maximum Marks: 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.
- Define CAD. Explain the reasons for adopting CAD in engineering organisation.
 - b) What do you understand by lean manufacturing.
 - Write about prototype development as part of design process.
 - Briefly explain the compulensed product cycle in the manufacturing environment.

Explain the SME manufacturing enterprise wheel.

- What is the importance of standards in CAM.
 - b) Write briefly on any one of the known standards.
 - Briefly explain the requirements for a graphic data base. c)
 - Describe some important features of EDM system.

OR

Explain the relevance of IGES in the Indian manufacturing scene.

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- What do you understand by Geometric entities in relation to CAD.
- What is the best kind of modelling system.
- Explain different types of geometric modelling methods used in CAD. Give a comparative application of each of them.

OR

Compare Bezier curve and B splines for CAD application.

- What do you understand by the term numerical control?
 - How is the tool length compensation specified in a machining center?
 - What type of looping facilities are available in CNC machine tool of the modern generation.
 - Explain with neat sketch the operation of the canned cycle G81 as per ISO.

OR

What are the work-holding methods suitable for CNC machining center.

- Why is group technology is more important in present manufacturing scenario.
 - What is cellular manufacturing?
 - Explain the concept of composite part with an example.
 - Explain the MICLASS and DCLASS coding system used in Group technology.

OR

Briefly explain the methodology to be followed for developing a retrieval type of computer aided process planning system.

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