C 26795 (Pages : 2) Name.....

Reg. No.....

SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, MAY 2012

AM/ME 09 605—COMPUTER INTEGRATED MANUFACTURING

(2009 admissions)

Time : Three Hours Maximum : 70 Marks

Part A

Answer **all** *questions.*
Each question carries 2 *marks.*

1. Distinguish between NC and CNC.
2. Write a note on home position.
3. List out various types of commands in APT language.
4. What is CIM ?
5. List out the types of FMS.

(5 × 2 = 10 marks)

Part B

Answer any **four** *questions.*
Each question carries 5 *marks.*

6. Describe briefly the closed loop system.
7. Distinguish between Point-to-point and contouring systems.
8. Explain the working of post processor technology.
9. Describe the advantages of group technology.
10. What are the benefits of FMS ?
11. Write a note on end effectors of robots.

(4 × 5 = 20 marks)

Part C

Answer **all** *questions.*
Each question carries 10 *marks.*

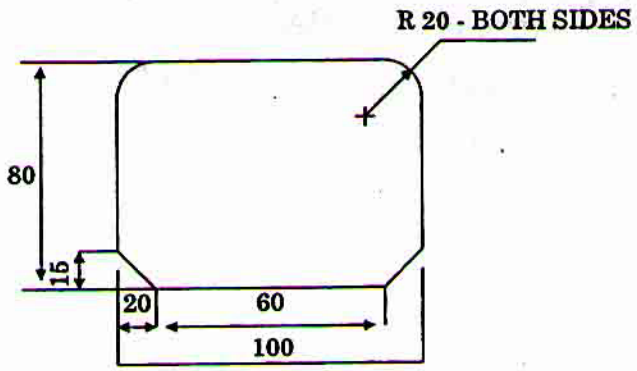
12. (a) Describe briefly on methods of improving machine accuracy of CNC machines.

Or

(b) Discuss the features of NC machine tools.

Turn over

13. (a) Write a part programme in APT for the part shown in figure below :



Or

(b) Explain the steps involved in manual part programming.

14. (a) Describe briefly the functions of computer control in CIM.

Or

(b) Discuss in detail about multiclass coding system in Group Technology.

15. (a) Discuss the various types of layouts used in FMS design.

Or

(b) Briefly describe the control systems in robots.

(4 × 10 = 40 marks)