

C 1161

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**SIXTH SEMESTER B.TECH. [ENGINEERING] (09 SCHEME) DEGREE
EXAMINATION, APRIL 2016**

ME/PTME/AM 09 605—COMPUTER INTEGRATED MANUFACTURING

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What are the advantages of NC system ?
2. Discuss the advantages of computer aided part programming.
3. Write notes on contouring in part programming.
4. What are AGVs ?
5. List out the applications of robots.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Differentiate open loop and closed loop systems.
7. List out any *four* motion commands used in APT language.
8. Discuss about optiz classification system in group technology.
9. Discuss in details about safety system in AGVs.
10. What are the different components of FMS ?
11. Discuss different types of sensors used in robots.

(4 × 5 = 20 marks)

Part C

Answer all questions.

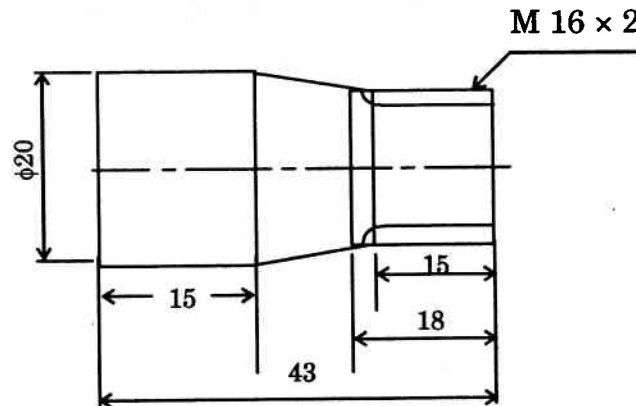
12. (a) Briefly describe different classification of NC system.

Or

- (b) Describe briefly important design considerations of NC machine tools.

Turn over

13. (a) Prepare a part programme in word address format for the component shown in figure below.



Or

- (b) Explain briefly the APT language.
14. (a) Describe the concept of part family in group technology.
- Or
- (b) Briefly describe the components and the operations of ASRS.
15. (a) Explain the components of FMS.
- Or
- (b) Discuss different types of robot programming.

(4 × 10 = 40 marks)