



C14-M-604

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**4754**

**BOARD DIPLOMA EXAMINATION, (C-14)  
OCTOBER/NOVEMBER-2018  
DME-SIXTH SEMESTER EXAMINATION**

COMPUTER AIDED MANUFACTURING

Time : 3 Hours ]

[ Total Marks: 80

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**PART-A**

3X10=30

- Instructions :**
1. Answer **All** questions.
  2. Each question carries **Three** marks.
  3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. Define computer aided manufacturing write any three benefits of CAM.
2. Define MRP-II write its two basic characteristics.
3. Differentiate between NC, CNC systems.
- \* 4. Write short notes on Recirculatory ball screw.
5. Draw the block diagram of CNC system and name the components.
6. What is a canned cycle?
7. What is an interpolation? List the types of interpolation.
8. Write the necessity of CIMS in a manufacturing industry.
9. What are the advantages of CNC CMM?
10. What is an end effector? List different types of grippers?

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## PART-B

10X5=50

- Instructions* : \*
1. Answer any **Five** questions, choosing at least one from each section.
  2. Each question carries **ten** marks.
  3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. Explain Computer Integrated production system.
12. Explain MRP-I by using suitable block diagram.
13. Explain in details about basic components of a NC system.
14. Explain the types of slide ways used in CNC machines.
15. Explain the types of statements used in APT programming.
16. Differentiate between Manual part programming and Computer aided part programming.
17. Explain the construction & working of Bridge type CNC CMM with neat sketch.
18. Explain the components of a Robot with neat sketch.

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