

3782
BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL - 2019
DIPLOMA IN MECHANICAL ENGINEERING
CAD/CAM
SIXTH SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

PART - A (10 x 3 = 30 Marks)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. Give any three reasons for integration of CAD and CAM.
2. Write down any six benefits of Computer Aided Design (CAD)
3. State the different networks used in CAD system.
4. What are the draw backs of CNC machines.
5. Give the major specifications of a CNC Machining Centre.
6. State the different types of slide ways used in CNC machines.
7. Write down the various statements used in APT language.
8. Write the syntax for thread cutting with canned cycles
9. Mention any three limitations of CIMS
10. State the advantages of CNC CMM.

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question carries 10 marks

2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. a) Give the detailed classification of output devices. 3 marks
 b) What is a plotter ? How Plotter works ? 7 marks
- * 12. Describe the sub modules of Material Requirements Planning (MRP-I)
13. a) Distinguish between the features of NC, CNC and DNC system
 b) Write briefly about tool magazine & Automatic tool changer in used in CNC Machines
14. Discuss the features of Numerical Control systems in detail.
15. a) Explain the meaning of 'canned cycle'.
 b) List some applications for this part programming feature.
16. Explain the sequential steps involved in writing a part programming.
17. Explain about various components of FMS and List out the advantages and disadvantages of FMS.
18. Explain about the different end effectors of a Robot.

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