



C09-M-604

3782

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH / APRIL - 2019

DME - VI SEMESTER EXAMINATION

CAD / CAM

Time : 3 Hours]

[Total Marks : 80

PART - A

3×10=30

- Instructions :**
- (1) Answer **ALL** questions.
 - (2) Each question carries **THREE** marks.
 - (3) Answer should be brief and straight to the point.

- 1 List out the limitations of CAM system
- 2 Mention the components used in a CAD hardware.
- 3 List out the reasons to implement the CAD in manufacturing industry.
- 4 Write down the requirements of slide ways in CNC machines.
- 5 Define NC, CNC and DNC systems.
- 6 Write a short note on Turn Mill centre.
- 7 Write down the advantages of designing the different program cycles in CNC part program.
- 8 Write a short note on coordinate system in CNC machine.
- 9 Mention any six benefits of CIMS
- 10 Compare the FMS with other types of manufacturing approaches.

3782]

1

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PART - B**10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
 - (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 (a) What is a Computer Integrated Production System ?
(b) What are the features and advantages of a Computer Integrated Production system ?
- 12 (a) What is LAN ? Give the advantages of LAN.
(b) Explain about any one LAN configuration with a neat diagram
- 13 (a) Explain the advantages of using CNC as compared to NC.
(b) State the applications of CNC machines.
- 14 Discuss the features of Numerical Control systems in detail.
- 15 (a) Why and how tool nose radius compensation is set in CNC machining?
(b) Discuss the macro statements used in APT with suitable examples.
- 16 (a) Explain the function of post processor in Computer assisted part programming.
(b) Explain about (i) magic three rule and (ii) tool function.
- 17 Describe the features of CNC CMM with a neat sketch.
- 18 Explain the basic components of a Robot