

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination

June, 2015

00282

BME-063 : CAD / CAM

Time : 2 hours

Maximum Marks : 70

Note : Answer any *five* questions. All questions carry equal marks.

1. (a) Describe the important parameters that need to be considered while selecting a CAD system. 7
- (b) What are the reasons for implementing CAD system ? Explain. 7
2. (a) Explain the working of CRT graphic display device with a suitable sketch. 7
- (b) What are the different types of input devices ? Explain the function of any two input devices with neat sketches. 7
3. (a) What is a wireframe model ? Enlist the limitations of wireframe model. 7
- (b) What is geometric modelling ? How can the CAD model be developed ? Explain with suitable examples. 7

4. (a) Differentiate between random scan and raster scan display with suitable examples. 7
- (b) How has the model been developed by sweep feature ? Explain with suitable examples. 7
5. (a) What do you mean by CAM ? Explain briefly manufacturing component of CAM. 7
- (b) Describe the different elements of CNC system. 7
6. (a) Describe the role of management information system in automated industry. 7
- (b) Explain the concept of flexible manufacturing system with suitable examples. Why is FMS needed for the manufacturing industries ? 7
7. (a) Explain the configuration of commercially available industrial robot with a neat sketch. 7
- (b) List out the application of Decision Support Systems (DSS). 7
8. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Boolean Operations
- (b) Computerized Inventory Control
- (c) CAM Workstation
- (d) Robot Programming and Interface
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