

**DIPLOMA IN MECHANICAL ENGINEERING  
(DME)**

**Term-End Examination**

**June, 2016**

00240

**BME-063 : CAD / CAM**

*Time : 2 hours*

*Maximum Marks : 70*

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**Note :** *Attempt any five questions.*

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1. Discuss the various types of CAD models in brief. 14
2. Explain the relationship between working coordinate system (WCS) and screen coordinate system (SCS). Discuss the importance of these coordinate systems. 14
3. Explain Extrusion and Revolution features of CAD with the help of suitable examples. 14
4. Explain the advantages of CAM. Discuss the major components of CNC machines. 14
5. What is an FMS ? Explain the importance and application of FMS. 14

6. Explain the following for CNC machines : 14
- (a) Feedback system
  - (b) Coordinate system
  - (c) Tool offset
  - (d) Canned cycle
7. Explain computerised inventory control system and its advantages. How is information system important for inventory control ? 14
8. Write short notes on any *four* of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Decision Support System (DSS)
  - (b) Management Information System (MIS)
  - (c) CNC Machining Centre
  - (d) 3-D modelling in CAD
  - (e) Automated Guided Vehicles (AGVs)
  - (f) Role of Robotic Devices
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