BME-063

DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination

December, 2015

00431

BME-063 : CAD / CAM

Time : 2 hours   *Maximum Marks : 70*

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

1. Explain the important features of CAD.   *14*

2. Explain the various types of coordinate systems used in CAD modeling.   *14*

3. Explain the scaling and sweep features of CAD using suitable examples.   *14*

4. Explain the importance of CAM in the present manufacturing environment. Discuss the major components of CNC machines.   *14*

5. Explain the role of Robotic devices and AGVs in FMS/CAM.   *14*

6. Explain CNC machining centers. What are the advantages of Automatic Tool Changer (ATC) and Pallet Changer ? *14*

7. Explain the application of Decision Support System (DSS) in CAM. What is the role of information system in DSS ? *14*

8. Write short notes on any *four* of the following :

$$4×3\frac{1}{2}=14$$

(a) Flat Pawl and Rooter Display

(b) 3D-modeling in CAD

(c) Computerized Inventory Control

(d) MIS

(e) FMS

(f) Feedback System in CNC machines

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