No. of Printed Pages : 2

BME-063

DIPLOMA IN MECHANICAL ENGINEERING (DME)

00378

Term-End Examination

June, 2014

BME-063 : CAD/CAM

Time : 2 hours *Maximum Marks : 70*

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

1. (a) Describe with neat sketches 2D and 3D models in CAD. 7

(b) Briefly describe the Graphic primitives. 7

2. (a) Write the application of touch-screens, joy-stick, track ball and mouse in CAD. 7

(b) What are the output interfaces available on a PC ? How do they differ from each other ? 7

3. (a) Explain the wireframe modelling procedure. 7

(b) Compare the features of 2D and 3D models. 7

4. (a) Distinguish between WCS and UCS. 7

(b) Explain the common modelling methods available for surface design in a surface modelling software. 7

5. (a) Highlight the salient features of CNC lathe. 7

(b) What are the differences between a CNC lathe and a turning centre ? 7

6. (a) Describe the principle and working of any one analog transducer and one digital incremental transducer. 7

(b) Give in detail the steps involved in NC turning. 7

7. (a) Explain the role of robotic devices in CAM. 7

(b) Describe the AGV system. 7

8. (a) Explain some important advantages of FMS over conventional manufacture. 7

(b) What is MIS ? Explain its relevance in CAD/CAM. 7