

**DIPLOMA IN MECHANICAL ENGINEERING  
(DME)**

**Term-End Examination**

**December, 2018**

00733

**BME-063 : CAD / CAM**

*Time : 2 hours*

*Maximum Marks : 70*

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

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1. (a) Explain the components of a CAD system with the help of a block diagram. 7
- (b) Explain three types of geometric modelling carried out in CAD. 7
2. (a) Differentiate between Wire frame modelling and Solid modelling. 7
- (b) Discuss the different types of display devices used in CAD. 7
3. (a) Explain the Graphical User Interfaces used in CAD. 7
- (b) Explain the following with one example each : 7
  - (i) Translation
  - (ii) Rotation

4. (a) Explain the different elements present in CNC machine tool system. 7
- (b) Discuss briefly how Computer aided manufacturing differs from Conventional manufacturing. 7
5. (a) Compare the relative merits and demerits of different input devices. 7
- (b) State and explain any three types of robot operations. 7
6. (a) What is adaptive control ? How is it important in robots ? 7
- (b) What is Flexible Manufacturing System ? What are its main components ? 7
7. Write short notes on the following : 7+7=14
- (a) Feedback System
- (b) Part Programming
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