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BME-063

DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination

00652

June, 2019

BME-063 : CAD / CAM

Time : 2 hours *Maximum Marks : 70*

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

1. (a) Using block diagram, explain how design and manufacturing activities are integrated in CAD / CAM. 7

(b) Give different applications and advantages of CAD. 7

2. (a) Differentiate between wire frame modelling and solid modelling. 7

(b) Using illustrations, explain the important coordinate systems. 7

3. (a) What do you mean by CAD models ? Explain different CAD models. 7

(b) What do you mean by CAM ? Discuss its main advantages and applications. 7

4. (a) Using examples, differentiate between open loop and closed loop control system. 7

(b) What do you understand by the term "Decision Support System" ? Explain. 7

5. (a) Compare the relative merits and demerits of different input devices. 7

(b) What are the different output devices used in CAD ? Explain briefly. 7

6. (a) State and explain any three types of robot operations. 7

(b) What is adaptive control ? How is it incorporated in robots ? 7

7. (a) Write in brief about 'graphical simulation'. 7

(b) Describe the role of management information system in CAD / CAM environment. 7