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Roll No

ME-804 (GS)
B.E. VIII Semester Examination, June 2020
Grading System (GS)
CAD/CAM/CIM
Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. What are the following G functions for a machining centre?
G17, G30, G81, G99
2. At point P lies originally at the position $(\sqrt{2}, 0)$. Find its co-ordinates if it is rotated 45° clockwise about the origin. If it is given a subsequent rotation of 45° , what will its co-ordinate be?
3. Explain the following commands in graphic modelling.
 - i) Scaling
 - ii) Mirror
 - iii) Rotation
4. a) What is CL data and toolpath?
b) What is cutter radius compensation?
5. What is the need for standardization in CAD data? Discuss in brief.
6. Discuss the CIM wheel with neat sketch. Briefly discuss various elements of CIM?
7. Explain the concept of flexible manufacturing system.
OR
Discuss the computer aided process planning in brief.
8. Answer any four of the following:
 - a) What is MRP?
 - b) Compare CORE and GKS graphics standards.
 - c) What is Rapid Prototyping?
 - d) Differentiate NC and CNC machines.
 - e) What are the benefits of FMS?
 - f) State the importance of process planning in product development.
