GIET UNIVERSITY, GUNUPUR – 765022

M. Tech (First Semester – Regular) Examinations, June – 2021

MPEMT 1052 – Computer Integrated Manufacturing

(Manufacturing Technology)

Time: 2 hrs   Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A   **(2 x 10 = 20 Marks)**

Q1. Answer **ALL** questions

a.   What are the drawing features of CAD package?

b.   What is the difference between NC and CNC?

c.   What is the difference between incremental and absolute system?

d.   What is the main objective of material handling?

e.   What are the basic steps involved in the search process for information retrieval?

f.   What are the benefits of industrial robots?

g.   Write about the sensor and give an example.

h.   Mention the advantages of CMM.

i.   What are the FMS layout configurations?

j.   What is the role of GT in CAD/CAM?

PART – B   **(6 x 5 = 30 Marks)**

Answer *ANY FIVE* questions   **Marks**

2.   Explain about the following types of transformations with example.   **(6)**
     (i) Translation (ii) scaling (iii) rotation

3.   Explain the Architecture of Information Retrieval.   **(6)**

4.   Write down any three elements of CMM.   **(6)**

5.   Explain about Industrial Robot Applications   **(6)**

6.   Elaborate the composite part concept in cellular manufacturing.   **(6)**

7.   Examine what is MICLASS system? Compare it with DCLASS system   **(6)**

8.   Explain the importance of CNC machines and robots in FMS.   **(6)**

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