

MODEL QUESTION

Term / Programme: VI / Mechanical Engineering
Course: CAD/CAM

Max.Marks: 75
Time: 3 Hrs.

PART – A

[N.B: (1) (1 to 8) 5 questions are to be answered out of 8 questions

(2) Question no.8 will be compulsory.

(3) Each question carries 2 marks.]

1. Define CAD.
2. What is a graphic standard?
3. What are the functions of CAM?
4. What is capacity planning?
5. Explain machine zero point.
6. What is a G code?
7. Define Robot.
8. Write a note on concurrent engineering.

PART – B

[N.B: (1) (9 to 16) 5 questions are to be answered out of 8 questions

(2) Question no.16 will be compulsory.

(3) Each question carries 3 marks

9. Briefly explain Ohsguga model.
- 10.Explain 2D translation.
- 11.Write a note on part classification and coding.
- 12.Explain master production schedule.
- 13.Write a note on canned cycle.
- 14.What do you mean by subtractive and additive method of RPT?
- 15.Draw CIM wheel.
- 16.Explain the concept of augmented reality.

PART – C

**[N.B: (1) Answer all the questions from 17 to 21 either A or B.
(2) Each question carries 10 marks.]**

17. A) With neat sketches explain the various types of surface.

(Or)

B) Briefly explain the basic steps and procedures of FEM.

18.A) Explain about OPITZ system of classification and coding.

(Or)

B) Briefly explain generative type of process planning.

19. A) Explain the CNC program procedure in detail.

(Or)

B) Explain the construction and working principle of fused deposition modelling of rapid prototyping.

20. A) Explain about the construction and working principle of AGV.

(Or)

B) Describe the application of robot in material transfer and spray painting with sketches.

21. A) Briefly explain the structure of House of Quality.

(Or)

B) Explain the basic steps in Failure Mode Effect Analysis in detail.