

# MECH- VI - Computer Integrated Manufacturing

Reg.No. 

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**7620**

**OCT -2019**

**Max. Marks : 75**

**Time : 3 Hours**

**( Note: Compulsory questions: Part A – No.8 & Part B – No.16 )**

**PART -A (5 X 2=10)**

**Answer any FIVE questions - All questions carry equal marks.**

1. Define CIM?
2. List the application of FEA?
3. What is GT?
4. What are the advantage of 3D printing?
5. List the components of NC system?
6. What is ZERO point (OR) Datum point?
7. List the benefits of AGV?
8. What is FMS?

**PART - B (5 X 3 = 15)**

**Answer any FIVE questions - All questions carry equal marks.**

9. List any two benefits of CAD?
10. What are the type of functions of IGES.
11. Define CAPP?
12. What is JIT?
13. Any four advantage of CNC machine.
14. Define canned cycle.
15. Define AS/RS
16. List the type of CNC machine centre

**PART - C (5X10=50)**

- i) Answer all questions by choosing either (a) or (b) from each question.**
- ii) All sub divisions carry equal marks.**

17. a) Explain the concept of CIM and CIM WHEEL.

(OR)

b) Explain PHIGS.

18. a) Explain the OPITZ classification system.

(OR)

b) Explain stereo lithography(SLA).

19. a) Compare NC and CNC.

(OR)

b) Explain the principle of working of CMM.

20. a. i) Write any six G-code and it's function.

ii) Write any six M-code and it's function.

(OR)

b) Explain the APT Languages.

21. a) Explain the FMS Layout configurations.

(OR)

b) Explain the working principles of AGV.

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