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Register No.:	

October 2018

Time - Three hours (Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART A and Q.No. 16 in PART B are compulsory.

 Answer any FOUR questions from the remaining in each PART A and PART B
 - (2) Answer division (a) or division (b) of each question in PART C.
 - (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C.]

PART - A

- 1. Define CAD.
- 2. What is capacity planning?
- 3. What is canned cycles?
- 4. What are the benefits of FMS?
- 5. What is a robotic sensor?
- 6. What is concurrent engineering?
- 7. State the advantages of DFMA.
- 8. What are the benefits of graphic standards?

PART - B

- 9. What are the advantages of solid modelling?
- 10. What is finite element analysis?
- 11. What is JIT?

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- 12. What are the applications of rapid prototyping?
- 13. What is intelligent manufacturing system?
- 14. Describe about vacuum grippers.
- 15. What is the concept of AR?
- 16. Write about the methods of NC dimensioning with examples.

PART - C

17. (a) Explain the activities of CAD.

(Or)

- (b) Explain the IGES graphic standard.
- 18. (a) Explain the generative type of CAPP.

(Or)

- (b) Explain the structure of MRP system.
- 19. (a) Explain stock removal canned cycle with an example.

(Or)

- (b) Explain the 3D printing used is RPT.
- 20. (a) Explain the FMS components in detail.

(Or)

- (b) Write briefly about the assembly and inspection of robot.
- 21. (a) Explain the concept of product development cycle.

(Or)

(b) Explain the guidelines for DFMA.
