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Question Paper Code: 53P02

M.E.DEGREE EXAMINATION, NOV 2018

Third Semester

CAD / CAM

15PCD302 – ADDITIVE MANUFACTURING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Write a note on the benefits and applications of AM. CO1- U (20)
Or
(b) Write a note on the need and development of AM systems. CO1- U (20)
2. (a) What is part orientation? Explain with illustrations. CO2- Ana (20)
Or
(b) Write a note on CO2- Ana (20)
(a) Virtual prototyping
(b) Rapid Tooling
3. (a) Explain the working principle of SGC. CO3-U (20)
Or
(b) Explain the working principle of LOM. C03-U (20)
4. (a) What is SLS? Explain the same CO4- U (20)
Or
(b) Brief the post processing types of LENS. Explain each with CO4- U (20)
suitable example.

5. (a) Compare solid, liquid and powder based system of 3DP. CO5- Ana (20)
- Or
- (b) Discuss few case studies of 3DP. CO5- Ana (20)
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