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Question Paper Code: 53P02

M.E.DEGREE EXAMINATION, NOV 2019

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) (i) What are the classifications of sensors? Explain it in detail. CO1- U (10)
(ii) Explain how AM has influenced the 3D printing technology. CO1- U (10)
Or
(b) Write a note on the benefits and applications of AM. CO1- U (20)
2. (a) Explain the need of support generation with flow charts. CO2- U (20)
Or
(b) (i) What are the techniques used in Tool path generation? CO2- U (10)
(ii) Explain about surface modelling. CO2- U (10)
3. (a) Explain the recoating issues in SLA. CO3-U (20)
Or
(b) Limitations and applications of SLA, SGC, FDM and LOM CO3-U (20)
4. (a) Explain the effect of surface deviation in LENS. CO4- U (20)
Or
(b) (i) Mention the post processing techniques of direct SLS. CO4- U (10)
(ii) Limitations and applications of SLS. CO4- U (10)

5. (a) Explain Ballistic Particle Manufacturing (BPM) CO5- U (20)

Or

(b) Brief the pre and post processing in BPM. CO5- U (20)
