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Question Paper Code: U3909

M.E. DEGREE EXAMINATION, APRIL 2024

Professional Elective

CAD / CAM

21PCD509- ADDITIVE MANUFACTURING

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Explain the 3D printing technology? CO1- U (20)
Or
(b) Write a note on the need and development of AM systems CO1- U (20)
2. (a) Discuss various aspects of tool path generation? CO1- U (20)
Or
(b) Explain the need of support generation with flow charts. CO1- U (20)
3. (a) Explain the working principle of SGC. CO1- U (20)
Or
(b) Explain the working principle of LOM. CO1- U (20)
4. (a) What are the processing techniques used in LENS? List the advantages and limitations of LENS? Explain with examples CO2- U (20)
Or
(b) Explain the applications of SLS and its processing techniques CO2- U (20)
5. (a) Explain Ballistic Particle Manufacturing (BPM) CO2- U (20)
Or
(b) Explain Electron Beam Melting CO2- U (20)

