No. of Printed Pages : 2 189164
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2nd Sem / (DVOC) Auto Mfg. Tech.
Subject : Rapid Prototyping & Reverse Engineering

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. (10x1=10)

Q.1 The process of obtaining a geometric CAD model from 3D points/Products is best known as_____.

Q.2 Which material is used as base material in selective laser sintering?

Q.3 In the entire reserve engineering process of product design, _____is the first step.

Q.4 What is CAD modeling?

Q.5 The full form of CNC is_____

Q.6 What is rapid tool?

Q.7 Write at least two materials used in RP?

Q.8 Define direct slicing.

Q.9 Write the different types of data formats.

Q.10 Define reverse engineering.

SECTION-B

Note: short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

Q.11 Explain the key aspects of Rapid Prototyping Technologies.

Q.12 Describe direct and adaptive slicing.

Q.13 Discuss how reverse engineering will be applied to RP techniques?

Q.14 Distinguish between RP and CNC.

Q.15 Write the medical applications of RP.

Q.16 List the advantages and limitations of FDM.

Q.17 Briefly classify the rapid prototyping system.

Q.18 Differentiate between conventional tooling and rapid tooling.

SECTION-C

Note: Long answer questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 Explain with neat sketch the laminated object manufacturing process of RP.

Q.20 List out the advantages, disadvantages and application of RP.