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Dvoc - Level -5

2nd Sem / 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 Rapid Prototyping
Q.2 Product development
Q.3 Data interfacing
Q.4 Direct slicing
Q.5 Fusion
Q.6 Sheet lamination process
Q.7 3-D printing
Q.8 Rapid tooling
Q.9 Indirect tooling method
Q.10 Reverse engineering

SECTION-B

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

Q.11 Briefly explain the need for rapid prototyping

Q.12 Explain the importance of RP in product development process
Q.13 Why are support structure needed in FDM?
Q.14 Discuss on STL files and define slicing relevant to CAD
Q.15 Discuss about photo polymerization
Q.16 Explain the merits and demerits of sheet lamination process.
Q.17 Differentiate between soft and hard tooling
Q.18 Highlight the importance of reverse engineering process.

SECTION-C

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

Q.19 Explain in detail laminated object manufacturing and its applications.
Q.20 Explain the significance of part orientation, support generation & slicing with reference to RPT