

M. Tech.-IV (Mechanical CAD/CAM) (CBCS – 2015 Course) :

SUMMER - 2019

SUBJECT: SELF-STUDY PAPER- II: RAPID PROTOTYPING

Day: Thursday
Date: 13/06/2019

Time: 11.00 AM TO 02.00 PM
Max. Marks: 60

S-2019-3538

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 What is Rapid Tooling? **(10)**

OR

Q.1 Write a note on materials used in RP. **(10)**

Q.2 How is a CAD model prepared for a RP system? **(10)**

OR

Q.2 What is a wire frame model? State its importance. **(10)**

Q.3 Explain the part building process in SLA. **(10)**

OR

Q.3 Explain recoating issues in liquid based RP systems. **(10)**

Q.4 What are the strengths and weakness of Solid Ground Curing? **(10)**

OR

Q.4 Explain the working of FDM. **(10)**

Q.5 Explain the post curing process in SLS. **(10)**

OR

Q.5 What are the materials used in LENS? **(10)**

Q.6 Enlist the strengths and weakness of 3DP. **(10)**

OR

Q.6 Compare powder based and liquid based RP systems. **(10)**

* * * *