

Code: 9D04206a

M.Tech II Semester Supplementary Examinations February 2018

**RAPID PROTOTYPING**

(CAD/CAM)

(For students admitted in 2012, 2013, 2014, 2015 & 2016 only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Explain the classification and advantages of RP.  
(b) Discuss the basic process steps of rapid prototyping techniques.
- 2 Explain the stereo lithography (SLA) process principle, process parameters and data preparation with neat sketches.
- 3 Explain briefly Fusion decomposition modeling principle and its process details and applications.
- 4 Briefly discuss the solid ground curing principle of operation, machine details and its applications.
- 5 Explain briefly about thermal jet printers and sander's model maker.
- 6 Explain about Magics, Mimics and Magic communication and collaboration tools.
- 7 Explain the following:  
(a) Errors due to tessellation.  
(b) Errors due to slicing.
- 8 Explain briefly about surface modification and data transfer to solid models.

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