Q.P. Code: 18ME3005	\18
Reg. No.	
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY::PUTTUR (AUTONOMOUS)	
M.Tech I year II Semester Regular Examinations June 2019 RAPID PROTOTYPING	
(CAD/CAM)	
Gime: 3 hours Max. M (Answer all Five Units 5×12=60 Marks) UNIT I	arks: 60
a What is rapid prototyping? Give its advantages and limitations?	6M
b What are the materials used in rapid prototyping? OR	6M
a Describe the principle of working of Stereo lithography system.	6M
b What are the advantages and disadvantages of SLA?	6M
a With an example explain path generation in FDM process.	6M
b What are the applications of FDM models? Give an example?	6M
OR	
a What are the materials used in SLS system?	6M
b Differentiate SLA and SLS in rapid prototyping. UNIT III	6M
a List the various rapid prototype concept modelers.	6M
b Explain how SLS process can be used to produce direct and in-direct prototyp OR	
6 a Explain the working principle of three dimensional printing along with advantages.	its 6M
b Explain in detail about process details and machine details of 3-D printing. UNIT IV	6M
a List out the various indirect rapid tooling methods and explain about the silf rubber tooling.	icon 6M
b Explain rapid tooling.	6M
OR	
a Discuss about Cast kriksite and 3Q Keltool.b What is the collaboration tools used in RP software?	6M 6M
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9 a Explain briefly vacuum casting and epoxy tooling.	6M
b Write the applications of vacuum casting and epoxy tooling. OR	6M
10 a What are the factors which influences accuracy of RP model?	6M
b What is meant by data preparation error?	6M
END	