

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech IV Year I Semester Regular Examinations November/December-2022 MODERN MACHINING METHODS

(Mechanical Engineering)

Time: 3 hours	Max. Ma	arks: 60
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(Answer all Five Units 5 x 12 = 60 Marks) UNIT-I		
1 a Explain the need for Modern Machining Methods	L2	6M
b What are the advantages of Non-Traditional Machining Methods OR	L1	6M
2 a Illustrate a neat sketch, and explain the working process of the Ultrason Sonic Machining Process (USM).	nic L4	6M
b Mention advantages and disadvantages of the Ultrasonic Machi Process.	ning L2	6 M
UNIT-II		
3 a List the advantages and disadvantages of EDM (Electrical Disch Machining).	arge L2	6M
 b Lists the Applications of EDM (Electrical Discharge machining). OR 	L2	6M
4 a What is flushing, and explain any two methods of flushing in the E Process.	DM L3	6 M
b What are the functions of dielectric fluid in EDM (Electrical Discharghachining).	arge L3	6M
UNIT-III		
5 a What are the different types of electrolytes used in Electro Chen Machining (ECM)?	nical L1	6M
b Discuss the surface finish, accuracy and economic aspects of Ele Chemical Machining (ECM).	ectro L1	6M
OR		
6 a Explain the working principle of the Electro-Chemical Honing (E Process with a schematic diagram and specify the parameters.		6M
b Write the advantages, disadvantages and applications of Electro Chem Honing (ECH).	ical L2	6M
UNIT-IV		
7 Draw the schematic layout of Electron Beam Machining (EBM) set up explain the major elements in it.	and L1	12M
OR	1.0	1004
8 Write the advantages, disadvantages Electron Beam Machining (EBM). UNIT-V	L2	12M
9 Discuss briefly about the need of Micro fabrication Techniques, advantages, disadvantages and applications.	it's L2	12M
OR		
10 Explain about the Micro Fabrication Technique - Lithography with Lithography flow diagram.	neat L1	12M
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