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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations Dec 2019

MANUFACTURING TECHNOLOGY

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1 Sketch and explain different types of patterns used in foundry. 12 M

OR

2 a With neat sketch explain stir casting process. 6 M

b What are the aims in making a casting? 6 M

UNIT-II

3 a What are the different fields of applications of welding process? 6 M

b Write short notes on Gas Tungsten Arc Welding (GMAW) and its advantages. 6 M

OR

4 a What is soldering process? 6 M

b Differentiate between the welding, brazing and soldering processes. 6 M

UNIT-III

5 Explain hot working process in detail. Also write applications, limitations, advantages and disadvantages. 12 M

OR

6 a What are the characteristics of forging processes? Write Processes used. 6 M

b What are the defects in forged parts? How can rectify the same? 6 M

UNIT-IV

7 a Explain with sketches the deep drawing Operations. 6 M

b What are the types of presses used for drawing operations? 6 M

OR

8 a Differentiate drawing and Deep Drawing Operations. 6 M

b What are the types of presses used for drawing operations? 6 M

UNIT-V

9 Explain the working principles and application of Blow Molding. 12 M

OR

10 a State how joining and machining of plastics are carried out? 6 M

b What are the foamed plastics and state how foaming is done. 6 M

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