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

B.Tech II Year II Semester Regular Examinations July-2021

MANUFACTURING PROCESSES

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Discuss the relative advantages and disadvantages of various types of furnaces used in foundry shops. **L2 6M**
- b With neat sketch explain the construction and working of cupola furnace. **L3 6M**

OR

- 2 a With neat sketch explain die casting process **L2 6M**
- b Distinguish hot die casting and cold die casting. **L2 6M**

UNIT-II

- 3 a Explain the working of spot welding briefly. **L2 6M**
- b Write short note :i) Seam welding ii) Projection welding **L2 6M**

OR

- 4 a What are the common welding troubles; causes and remedies for them? **L3 6M**
- b What is weld decay and how it can be prevented? **L2 6M**

UNIT-III

- 5 a What is open, impression die forging? Give its processes **L2 6M**
- b Discuss the advantages, disadvantages and applications of open, impression die forging. **L2 6M**

OR

- 6 With neat sketch explain i) rod and wire drawing ii) tube drawing **L3 12M**

UNIT-IV

- 7 a What are the characteristics of sheet metal? **L1 6M**
- b What are the types of shearing? **L1 6M**

OR

- 8 What are the production processes of metallic powders? **L2 12M**

UNIT-V

- 9 Explain the working principles and application of Rotational Moulding **L2 12M**

OR

- 10 a State how joining and machining of plastics are carried out? **L3 6M**
- b what are the foamed plastics and state how foaming is done **L1 6M**

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