

Code No.: ME304PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II-B.TECH-I-Semester End Examinations (Supply) - December- 2024
PRODUCTION TECHNOLOGY
(MECH)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) What is the function of core in metal casting? [2M]
- b) List out the various pattern allowances. [2M]
- c) What is the difference between resistance welding and thermit welding? [2M]
- d) How many types of welding joints. [2M]
- e) Write the applications of friction welding. [2M]
- f) Define heat affected zone. [2M]
- g) Define hot working process. [2M]
- h) What do you mean by wire drawing? [2M]
- i) Compare open die forging and closed die forging. [2M]
- j) Write the difference between hot extrusion and cold extrusion. [2M]

PART-B

(50 Marks)

2. Explain the various types of pattern allowances with neat sketch. [10M]
- OR**
3. Describe the Die casting and investment casting process with neat sketch. [10M]
 4. Explain the principle of Arc welding and Thermit welding with a neat sketch. [10M]
- OR**
5. Discuss about oxy-fuel gas cutting processes with suitable sketch and mention their applications, limitations. [10M]
 6. Differentiate between TIG welding and MIG welding processes. [10M]
- OR**
7. Explain the Friction Stir welding process with neat sketch. Also, write the welding defects. [10M]
 8. Explain the various types of operations performed in sheet metal operations. [10M]
- OR**
9. Describe the types of rolling mills with suitable sketches. [10M]
 10. Discuss about high energy rate forming methods with the proper sketches. [10M]
- OR**
11. Explain forward and backward extrusion process with the proper sketches. [10M]
