

Code No.: ME304PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II-B.TECH-I-Semester End Examinations (Supply)- June- 2022
PRODUCTION TECHNOLOGY
(MECH)

[Time: 3 Hours]

[Max. Marks: 70]

- Note:** 1. Answer any FIVE questions. Each question carries 14 marks.
2. All questions carry equal marks.
3. Illustrate your answers with NEAT sketches wherever necessary.

5X14=70

1. a) Describe various materials used for making patterns. What are its merits & demerits? [7M]
b) Sketch and explain the features of different types of patterns. [7M]
2. a) What are the applications of centrifugal casting? [7M]
b) Explain investment casting process .discuss advantages and applications of the process. [7M]
3. a) Analyze the features of sub merged arc welding. [7M]
b) List out the Advantages, Limitations and applications of resistance welding? [7M]
4. a) Discuss the characteristics features of MIG welding process. [7M]
b) Compare and contrast solid welding process with fusion welding process. [7M]
5. a) Derive an expression for forces and power required for blanking process? [7M]
b) Derive the drawing force required to reduce the cross sectional areas. [7M]
6. a) Explain about drop forging and rotary forging in details. [7M]
b) What is extrusion? derive an expression for extrusion force. [7M]
7. a) Explain laser welding. also mention it's applications? [7M]
b) Explain briefly about friction stir welding? [7M]
8. a) What are the difference between thermit welding and Forge welding with examples? [7M]
b) Write the merits and demerits of gas welding? [7M]
