
24089

B. Tech 3rd Semester (AUE) Examination – December, 2017

MANUFACTURING METHODS

Paper: AUE-207-F

Time: Three Hours] [Maximum Marks: 100]
Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.

- 1. (a) Define mould, permanent, mould and die casting mould. $2.5 \times 8 = 20$
 - (b) What is purpose of feeding a casting?
 - (c) Define welding.
 - (d) Define rack angle.
 - (e) On what types of works the process of chemical machining is best suited?
 - (i) What is overcutting in EDM process?
 - (g) What is Forging?
 - (h) Define Lancing.

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SECTION - A

- What are the basic rules to be followed for good casting design? Also give the classification of manufacturing process.
- With the help of neat sketch explain the principal working of Centrifugal casting.

SECTION - B

- Explain the principal of Arc welding. Differentiate between TIG and MIG welding.
 20
- 5. Describe the commonly used attachment on Lathe. 20

SECTION - C

- Discuss the principal and application of Electro discharge machining with the help of neat sketch. 20
- 7. Discuss the need for unconventional machining processes. What do you understand by PLASMA? What is its application in production technology? 20

SECTION - D

- Give the classification of forming processes. Also discuss the advantages and limitations of powdered metals.
- With the help of neat sketch explain the principal of spinning. Also give its advantages.

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