

B.E. III - Semester Examination**BE-III/11(A)****247059****MECHANICAL ENGINEERING****Production Technology****Course No - PME - 305***Time Allowed- 3 Hours**Maximum Marks-100*

- Note:*
- 1. All questions carry equal marks.*
 - 2. Five questions out of eight to be attempted selecting at least two from each section.*
 - 3. Use of scientific calculator will be allowed in the examination hall.*

SECTION - A

- 1. Explain casting and different steps involved in casting process. Discuss the advantages and disadvantages of casting.*
- 2. Define gating system. Explain different types of gating system.*
- 3. Explain operation of cupola with a neat and labelled diagram.*

4. Write short notes on:

- a) True Centrifugal casting.
- b) Semi-centrifugal Casting.
- c) Centrifuging.

SECTION - B

5. a) Define Welding. Explain the advantages and disadvantages of welding.

b) Explain the classification of welding process.



6. Define rolling with diagram. Describe different types of rolling.

7. a) What is forming? Discuss different types of forming process.

b) Differentiate hot working and cold working.

8. Explain:

a) Submerged Arc Welding.

b) Resistance Welding.

