Code: ME4T5

II B.Tech - II Semester – Regular/Supplementary Examinations – April 2017

PRODUCTION TECHNOLOGY (MECHANICAL ENGINEERING)

Duration: 3 hours Max. Marks: 70

PART - A

Answer *all* the questions. All questions carry equal marks

 $11 \times 2 = 22$

1.

- a) What are the applications of castings?
- b) What are different pattern allowances?
- c) What is the principle of centrifugal casting?
- d) Define investment casting.
- e) Define principle of ARC welding.
- f) Explain various types of welding processes.
- g) What is Hot and cold working of metals?
- h) List various types of sheet metal operations.
- i) Classify polymers.
- j) Define rolling and forging.
- k) Write about hydro static extrusion and its limitations.

PART - B

Answer any *THREE* questions. All questions carry equal marks. $3 \times 16 = 48 \text{ M}$

2.	a) Explain different types of patterns.	8 M
	b) Explain about design of gating systems.	8 M
3.	a) Explain brief about shell moulding process with neat sketch.	8 M
	b) Write down the advantages and disadvantages of she moulding process.	ll 8 M
4.	a) Explain TIG welding process with neat sketches.	8 M
	b) Explain thermit welding process with neat sketch.	8 M
5.	a) Explain the Bending operations with neat sketches.	8 M
	b) Give the difference between Punching and Blanking.	8 M
6.	a) Describe Injection moulding.	8 M
	b) Explain the extrusion of plastics.	8 M