Paper / Subject Code: 50004 / PRODUCTION PROCESS-I

S.E. SEM III / MECH / CREDIT BASE / NOV 2018/ 11.12.2018

Q. P. Code: 50375

[20]

(03Hours)

[Total Marks: 80]

N.B. 1) Question No 1 is Compulsory

- 2) Attempt any three out of the remaining five questions
- 3) Figures to the **right** indicate full marks
- 4) Draw neat sketches wherever necessary



1. Attempt any four of the following

- a) Mechanism of sintering
- b) Thread rolling
- c) Centrifugal Casting
- d) Carbon Arc Welding
- e) Blow Moulding

2. a) Explain any two non-destructive techniques with sketch	ch. [10]
b) Explain rotary swaging with its sketch?	[10]
3. a) Explain - (i) Principle of gating (ii) Principle of riserin	g. [10]
b) What is weldability? Discuss various welding defects.	[10]
4. a) Explain vacuum forming process of polymers.b) Differentiate Welding, soldering and brazing.c) Write short note on Pattern materialsd) Differentiate between open and closed die forging.	[5] [5] [5] [5]
5. a) Compare TIG and MIG welding.	[10]

b) What is powder metallurgy? Why gears are manufactured by powder metallurgy? List the

6. Attempt the following

[20]

[10]

a) Discuss types of flames in gas welding.

advantages of powder metallurgy.

- b) Write short note on application of plastics in industries.
- c) Describe Ultrasonic testing process with a neat labelled sketch.
- d) What are the limitations of powder metallurgy processes over other competing processes?
