

Code No: RT22033

R13

SET - 1

II B. Tech II Semester Supplementary Examinations, November-2017
PRODUCTION TECHNOLOGY
(Common to ME and AME)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

PART -A

1. a) Write about the various advantages of casting process? (3M)
- b) Explain about solidification of pure metals? (4M)
- c) What are the advantages and disadvantages of DC and AC welding? (4M)
- d) Explain pre & post treating of welded joints? (4M)
- e) Write about applications of powder metallurgy? (4M)
- f) Explain about types of plastics? (3M)

PART -B

2. a) Explain the following with suitable sketches. (10M)
(i) Cope and drag pattern (ii) Skeleton pattern.
- b) What are the consequences when turbulence of the metal occurs in the gating system? (6M)
3. a) What is the function of riser? What is its preferred shape and briefly write about nucleation and grain growth related to casting? (8M)
- b) Explain about Die Casting with neat diagram and applications of die casting? (8M)
4. a) Explain Oxy- Acetylene Gas cutting in detail? (8M)
- b) Draw a diagram showing the classification of welding process. (8M)
5. a) Difference between Friction welding and Friction stir welding? (8M)
- b) Explain about destructive and nondestructive testing of welds? (8M)
6. a) Explain about hot working and cold working processes? (8M)
- b) Explain about impact extrusion and hydrostatic extrusion? (8M)
7. a) Write about types of presses and press tools? (8M)
- b) Explain about bending, spring back and its remedies? (8M)