

Th-1 Production Technology

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2  
Figures in the right hand margin indicates marks

1. Answer All questions 2 x 10
- a. Define Impact extrusion process.
  - b. Define Rolling process and classify its various types.
  - c. Write different types of flames used in Oxy-acetylene welding process.
  - d. What is pattern? State different type of pattern in foundry shop.
  - e. State the function of flux in welding.
  - f. Define porosity and its remedies.
  - g. What is the function of chill and chaplet?
  - h. Define Powder Metallurgy process.
  - i. Define piercing and trimming.
  - j. What do understand by permeability?
2. Answer Any Six Questions 6 x 5
- a. State five numbers of welding defects, its causes and remedies.
  - b. Explain sintering process.
  - c. Explain different type of pattern allowances.
  - d. Differentiate between TIG and MIG welding process.
  - e. Explain different types of moulding sands with its compositions.
  - f. Explain Compound die and Progressive die.
  - g. What is Centrifugal casting? Explain with neat sketch.
- 3 Describe the construction and working principle of Cupola furnace with a neat sketch. 10
- 4 Explain 3-2-1 location of rectangular jig. 10
- 5 What is Resistance welding process? Explain Spot welding and Seam welding with a neat sketch. 10
- 6 Explain different type of Casting defects and its remedies. 10
- 7 Explain the process of Power Metallurgy. 10