

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