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| 1. | ANSWER ALL THE QUESTIONS. (a)What do you understand by "Recrystallisation Temperature?" (b)What is " Extrusion"? (c)What is Rolling? (d) Define pattern.what are the types of pattern? (e)What do you Understand By the term "Riser and "Gate? (f)How many types of flames are there in an oxy-acetylene welding? (g)What do you Understand by Gas Welding? (h)What do you mean by permeability? (i)Define casting? Write its uses? (j)What is jig and fixture? | 2x10 |
| 2. | ANSWER ANY SIX QUESTIONS: (a) Explain sintering process? (b) Explain briefly about carburizing flame and oxidising flame? ? (c) Explain moulding sands with their composition ? (d)Explain with neat sketches the Direct Extrusion process? (e) Write down the difference between TIG and MIG welding process? (f)Whst is the principle of resistance welding process?Classify it? (g) Write 5 welding defects with its causes and remedies? | 5x6 |
| 3. | (a)What is open blows & blow holes in a casting. Write its causes. (b)What is centrifugal casting? Classify it. Explain true centrifugal casting with its application. | 3 7 |
| 4. | (a)Name an Extrusion process by which a toothpaste tube can be produced? (b)Explain the working principle of TIG welding process with neat sketch. | 2 8 |
| 5. | (a)Define Blanking and Punching? (b)What is the type of dies used in a sheet metal operation? Explain the working of Compound Dies with neat sketch. | 3 7 |
| 6. | (a) what are the advantages and disadvantages of casting process? (b) Explain different types of patterns used in the casting. | 3 7 |
| 7. | (a)What is pouring metal defects and metallurgical defects in a casting (b) Explain hot chamber die casting process with neat sketch. | 7 3 |
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