

5. Recrystallisation temperature is
- (a) Melting temperature (b) Above melting temperature
(c) Below melting temperature (d) Solidification temperature
6. Blanking is one of the
- (a) Welding operations (b) Forging operations
(c) Casting methods (d) Plastic processing
7. In which process the wall thickness of a drawn cup is made constant
- (a) Deep drawing (b) Ironing (c) Embossing (d) Redrawing
8. Metal extrusion process is generally used for producing
- (a) Uniform solid sections (b) Uniform hollow sections
(c) Uniform solid and hollow sections (d) Varying solid and hollow sections
9. Plastic bottles are manufactured using the process of
- (a) blow moulding (b) injection moulding
(c) atomizing (d) Roto moulding
10. Parison is the term used in
- (a) Injection moulding (b) Shell moulding
(c) Compression moulding (d) Blow moulding

PART - B (5 x 2 = 10 Marks)

11. What are the causes for the formation of blow holes in the sand casting?
12. What is the principle of Thermit welding?
13. What is meant by fullering?
14. What is the spring back effect in sheet metal component?
15. What is film blowing?

PART - C (5 x 16 = 80 Marks)

16. (a) Select the suitable casting process to cast intricate components and explain it with neat sketches. (16)

Or

- (b) Select the suitable casting process to cast intricate components and explain it with neat sketches. (16)

17. (a) Illustrate the equipment set up and functioning of gas tungsten-arc welding process. (16)

Or

- (b) Draw and show the components of ultrasonic welding machine for lap welds and explain the working principle. (16)

18. (a) List out various extruding operations to make hollow tubes with necessary sketches (16)

Or

- (b) Explain the cold extrusion process with examples and state its advantages. (16)

19. (a) (i) Explain the basic nomenclature of tube banding with a simple sketch. (6)
(ii) Discuss super plastic forming with necessary sketches. (10)

Or

- (b) Explain super plasticity forming and its types with neat sketch. (16)

20. (a) Give the schematic illustration of the explosive forming process and list its applications. (16)

Or

- (b) Choose the suitable processes for making for advertisement panel, cookies trays and packing materials of thermoplastic sheets. (16)

