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Manufacturing Technology

Important 13mark questions

Unit I

1. What are the different types of mould? Explain “green sand mould” and “shell moulding”?
2. Explain the following
 - (i) Centrifugal casting.
 - (ii) Investment moulding process.

Unit II

1. Describe submerged arc welding process with its application and advantages.
2. Enumerate the principle of operation, advantages and limitations of laser beam welding.

Unit III

1. Outline the common operations performed in the following machine with simple sketches.
 - (i) Lathe.
 - (ii) Shaper.
2. Explain electron beam machining (EBM) and ultrasonic machining (UM).
3. Describe the horizontal knee by milling machine, with suitable sketch.

Unit IV

1. Explain the injection moulding process with the neat sketch.
2. Describe in detail the Compression Blow Moulding with the neat sketch.

Unit V

1. Enumerate the principle steps involved in powder metallurgy process with neat sketch.
2. With the help of a neat sketch, describe the Wire Drawing Process.