

- Q.27 Describe any five casting defects and their remedies
 - Q.28 Describe the process of Electroplating.
 - Q.29 Describe Metal spraying method and its types.
 - Q.30 What are the defects in moulds? Explain their remedies.
 - Q.31 How base material is prepared prior to paint ?
 - Q.32 Describe the preservation and storage of patterns
 - Q.33 What is the necessity of metallic coating ?
 - Q.34 What is the importance of inspection instruments and gauges in manufacturing ?
 - Q.35 Explain the copying lathe and their attachment

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the constructional detail and working of Lathe Machine. Also write down various operation performed on lathe machine.

Q.37 What is electroplating ? Explain its working principle

Q.38 List different types of melting furnaces. Explain the working of cupola furnace.

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Subject:- Manufacturing Technology - I

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The cavity produced by pattern in compact sand is known as

 - a) Mould
 - b) Pattern
 - c) Core Box
 - d) Casting

Q.2 In an oil paint, turpentine oil is used as a

 - a) Base
 - b) Vehicle
 - c) Pigment
 - d) Solvent

Q.3 It is an instrument used for angular measurement

 - a) Micrometer
 - b) Sine bar
 - c) Dial gauge
 - d) Vernier caliper

Q.4 Which of the operation can not be done in shaper

 - a) Cutting spine
 - b) Gear cutting
 - c) Horizontal and vertical machining
 - d) Square thread cutting

- Q.5 An instrument used for comparing the dimension of a component with a standard of length.
- a) Clinometer b) Dial indicator
c) Comparator d) Micrometer
- Q.6 The process of providing a thin layer of zinc coating on iron and steel called
- a) Electroplating b) Metal Cladding
c) Cementation d) Galvanising
- Q.7 An operation of producing an external conical surface on a workpiece is known as
- a) Taper turning b) Plain turning
c) Facing d) Step turning
- Q.8 The sand in its natural moist state is called
- a) Red sand b) Green sand
c) Silica sand d) None of the above
- Q.9 Which of the following is not a pipe fitting ?
- a) Elbow b) End plug
c) Union d) Vice
- Q.10 Which of the following is not a constituent of moulding sand ?
- a) Silica sand b) Sand binder
c) Additive material d) Clay

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define Allowance
Q.12 Define thread cutting
Q.13 What is the use of sine bar ?
Q.14 In which stroke shaper cuts ?
Q.15 What is the use of primer
Q.16 What is Bilateral Tolerance ?
Q.17 Define Limits.
Q.18 Define Core Box
Q.19 Define Metal sawing
Q.20 Define Knurling

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What is interchangeability? Explain its use.
Q.22 What are the application of different pipe fittings ?
Q.23 Write a short note on dial comparator.
Q.24 Describe Metal spraying method and its types.
Q.25 Describe the working principle of shaper machine
Q.26 Explain the types of moulding sands.