

- Q.29 Write a short note on metal bending.
- 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 attachments.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 10 = 20)$

- Q.36 Explain the constructional detail and working of Lathe Machine. Also write down various operations 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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Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(10 \times 1 = 10)$

- 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 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 dimensions 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 or 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 Define Limits.
- Q.14 Define Core Box.
- Q.15 Define Metal sawing.
- Q.16 What is the use of depth gauge?
- Q.17 What is the use of sine bar?
- Q.18 What is Bilateral Tolerance?
- Q.19 What is the use of radius gauge.
- Q.20 In which stroke shaper cuts?

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 applications 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 different types of moulding sands.
- Q.27 Describe any five casting defects and their remedies.
- Q.28 Describe the process of Galvanizing.