

- Q.26 Explain the uses of primer.
  - Q.27 Explain the working principle of shaper machine.
  - Q.28 Discuss about speed and feed of cut for lathe machine along with its formula.
  - Q.29 What should be the remedies to prevent/remove the casting defects?
  - Q.30 Explain the process of powder coating.
  - Q.31 What is the necessity of metallic coating?
  - Q.32 Write a short note on dial comparator.
  - Q.33 Write a short note on different pattern materials.
  - Q.34 Discuss any four properties of a moulding sand.
  - Q.35 Give difference between “Go” and “Not - Go” gauge.

## **SECTION-D**

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

- Q.36 What is galvanizing? Explain its working principle.

Q.37 Enlist different types of melting furnaces. Explain the working of cupola furnace with neat sketch.

Q.38 Explain the working and constructional details of lathe machine. Also write down various operations performed on lathe machine.

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## **SECTION-A**

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

- Q.1 The surface of metal starts deteriorating may be known as

  - a) Descaling
  - b) Deburring
  - c) Tumbling
  - d) Corrosion

Q.2 Which of the following tool/machine used to make internal and external threads.

  - a) Twist drill
  - b) Grinder
  - c) Tap
  - d) Shaper

Q.3 The purpose of quick return mechanism is

  - a) To reduce the time in return stroke
  - b) To set the job
  - c) To reduce the speed of cutting stroke
  - d) For good finish

Q.4 It is used to make a cavity in the casting

  - a) Core
  - b) Pattern
  - c) Mould
  - d) Core box

- Q.5 It comprise major portion of moulding sand.
- Silica sand
  - Sand binder
  - Additive material
  - Clay
- Q.6 What is/are the need of limits, fits and tolerances?
- Mass production
  - Standardization
  - Inter changeability
  - All of these
- Q.7 It is the extreme permissible to make the machine component.
- Fits
  - Size
  - Limits
  - Tolerances
- Q.8 The difference between the dimensions of two mating parts is called
- Fits
  - Size
  - Limits
  - Tolerances
- Q.9 The top flask of the moulding is called
- Drag
  - Cheek
  - Cope
  - None of these
- Q.10 The process of providing a thin layer of zinc coating on iron and steel called
- Electroplating
  - Galvanizing
  - Metal cladding
  - Cementation

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define moulding.
- Q.12 Define limit.
- Q.13 What is brazed tool.
- Q.14 Write any one defect of casting.
- Q.15 Write a use of micrometer.
- Q.16 Define slotting operation.
- Q.17 Give name of any one type of pattern.
- Q.18 Write full form of HSS.
- Q.19 Which part of shaper supports the table.
- Q.20 What is the use of sine bar?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Define limits. And also discuss its types.
- Q.22 What is metal spraying method? Also write down its advantages.
- Q.23 What are common materials used for pattern making?
- Q.24 Define electroplating. Also state its principle.
- Q.25 Differentiate between the capstan and turrent lathe.