

- Q.26 Write short note on working of cupola furnace.
- Q.27 Explain the working of shaper machine.
- Q.28 Explain the 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 What are the main precautions to be taken while operating a shaper?
- 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 different operations to be done on the lathe machine.
- Q.35 Differentiate between “Go” and “Not-Go” gauge.

## SECTION-D

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

- Q.36 Describe the various casting defects and their remedies.
- Q.37 What is galvanizing? Explain its working principle.
- Q.38 Explain the working and constructional details of lathe machine. Also write down various operations performed on lathe machine.

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Roll No. ....

**3rd Sem.**

**Branch : Agri, Auto**

### Sub: Manufacturing Technology-I

**Time : 3 Hrs.**

**M.M. : 100**

## SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 In shaper machine, table is mounted on \_\_\_\_\_.  
a) Base                                      b) Tool head  
c) Clapper box                              d) Saddle
- Q.2 Taps are used to make \_\_\_\_\_  
a) Internal threads                          b) External threads  
c) Both A & B                                d) None of these
- Q.3 The quick return mechanism in shaper machine is used  
a) To reduce the time in return stroke  
b) To set the job  
c) To reduce the speed of cutting stroke  
d) All of these
- Q.4 The surface of metal starts deteriorating may be known as  
a) Descaling                                      b) Deburring  
c) Tumbling                                      d) Corrosion

- Q.5 A mandrel is used to hold
- a) An eccentric work      b) A heavy work
- c) A thin work              d) None of these
- Q.6 What is/are the need of limits, fits and tolerances?
- a) Mass production      b) Standardization
- c) Inter changeability      d) All of these
- Q.7 IT is the extreme permissible to make the machine component.
- a) Fits                      b) Size
- c) Limits                      d) Tolerances
- Q.8 An operation of producing an external conical surface on a work piece is known as
- a) Plain turning              b) Taper turning
- c) Step turning              d) Facing
- Q.9 In moulding, the top flask is known as
- a) Drag                      b) Cheek
- c) Cope                      d) None of these
- Q.10 The process of providing a thin layer of zinc coating on iron and steel called
- a) Electroplating              b) Galvanizing
- c) Metal cladding              d) Cementation

## SECTION-B

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

- Q.11 Write uses of dial gauge.
- Q.12 What is thread cutting.
- Q.13 What is brazed tool.
- Q.14 Define moulding.
- Q.15 \_\_\_\_\_ is used for metal sawing.
- Q.16 Define slotting operation.
- Q.17 Write functions of cheek.
- Q.18 Shaper cuts in backward stroke. (True/False)
- Q.19 Write uses of micrometer.
- Q.20 List any two pattern materials.

## SECTION-C

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

- Q.21 Explain the types of moulding sand.
- Q.22 Explain the process of metal bending in detail.
- Q.23 Discuss about cope, cheek and drag.
- Q.24 What is electroplating? State its principle.
- Q.25 Differentiate between the capstan and current lathe.