

- 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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Roll No.

3rd Sem / Agri., Auto Subject:- Manufacturing Technology - I

Time : 3Hrs.

M.M. : 100

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.
- a) Silica sand b) Sand binder
 - c) Additive material d) Clay
- 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 The difference between the dimensions of two mating parts is called
- a) Fits b) Size
 - c) Limits d) Tolerances
- Q.9 The top flask of the moulding is called
- 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 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.