

- Q.27 What is Vacuumizing?
 - Q.28 Write the applications of pipe fittings.
 - Q.29 What are the different types of moulding sand?
 - Q.30 Give the importance of inspection instruments and gauges in manufacturing.
 - Q.31 Describe the use of Dial Comparator. Explain its limitations.
 - Q.32 Describe the working principles of Shaper machine.
 - Q.33 Describe any five casting defects and their remedies.
 - Q.34 Describe the process of Electroplating.
 - Q.35 Write a short note on preservation and storage of patterns.

SECTION-D

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

- Q.36 What is metal spraying? Describe different methods of metal spraying along with their advantages.

Q.37 Explain the constructional detail and working of Lathe Machine. What are various operations that can be performed on lathe machine.

Q.38 What is Galvanizing? Explain its working principle.

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

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.5 In Lathe, the carriage and tail stock are guided on
a) Same guideway b) Different guideways
c) None of above d) Any one of the above
- Q.6 Green sand is a mixture of
a) 30% sand and 70% clay
b) 50% sand and 50% clay
c) 70% sand and 30% clay
d) 90% sand and 10% clay
- Q.7 The distance travelled by the tool per minute in a shaper across the job during the working stroke is called.
a) Feed b) Cutting Speed
c) Depth of cut d) Ram stroke
- Q.8 The purpose of quick return mechanism is.
a) To reduce speed of cutting stroke
b) Quick setting of job
c) For good finish
d) To reduce the time in return stroke
- Q.9 It is used to make a cavity in the mould.
a) Core b) Pattern
c) Core box d) Mould
- Q.10 The difference between the dimension of two mating parts is called
a) Fit b) Tolerance
c) Allowance d) Limit

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 Define Unilateral Tolerance.
Q.12 Define Metal shear.
Q.13 Define Knurling.
Q.14 Define Feed of cut.
Q.15 List any two metal shearing tools.
Q.16 Give any two defects of moulding.
Q.17 What is the use of radius gauge?
Q.18 State name of the gauge for checking height of a component.
Q.19 What is the use of Depth gauge?
Q.20 Write the name of any two types of melting furnaces.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21 What are the common materials used for pattern making?
Q.22 What is the necessity of metallic coating?
Q.23 Differential between capstan and turret lathe.
Q.24 What are the main precautions to be taken while operating a shaper?
Q.25 What are different types of metal bending?
Q.26 Explain the working of cupola furnace.