

- Q.20 Enlist the various safety precautions with respect to slotting machine.
- Q.21 Write a short note on knurling and HSS tools.
- Q.22 Give differences between capstan and turret lathe.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain the various cutters used in Universal milling machine with the help of diagram.
- Q.24 Explain various cutting parameters in lathe and give the calculations for at least four different cutting operations in lathe.
- Q.25 Describe at least four measuring instrument used in workshop and application.

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Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Electrodes used in spot welding are made up of which material?
- a) Only Copper
 - b) Copper and aluminium
 - c) Copper and chromium
 - d) Copper and tungsten
- Q.2 Which of the following device is not used for holding the work in a drilling machine?
- a) step block
 - b) drill jigs
 - c) both step block and drill jigs
 - d) none of the mentioned

- Q.3 In shaper, the tool head consists of _____
 a) tool post b) tool slide
 c) clamper box d) all of the mentioed
- Q.4 Lathe is primarily used for producing _____ surfaces.
 a) flat b) curve
 c) taper d) none of the mentioned
- Q.5 Which of the following machine is superior to other machines as regards accuracy and better surface finish?
 a) lathe b) drill
 c) milling d) shaper
- Q.6 The liquid temperature of the filler metal used in brazing is _____
 a) 150°C b) 427°C
 c) 723°C d) 1000°C

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 In milling machine, cutter rotates at high speed & removes metal at very high speed (True/False)
- Q.8 The drilling machine is second most important machine tool in a workshop. (True/False)

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- Q.9 Tin-Zinc solders are used for joining _____ metal
- Q.10 Traversing of tool parallel to the axis of job is termed as _____
- Q.11 _____ is a process where in a narrow slit is cut into the workpiece.
- Q.12 Write any two causes of accident in workshop.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Classify accidents and the sources of accidents.
- Q.14 Define the following
 a) marking tools
 b) files
- Q.15 Classify and explain the various type of drilling machine.
- Q.16 Explain the construction and working of hand grinder.
- Q.17 Describe the various work holding devices in a Lathe.
- Q.18 Explain the working principle of sawing.
- Q.19 How do we select the planning operation? Explain briefly.

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