

- 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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1st Year / Advance Diploma in Tool and Die Making Subject : Workshop Technology - I

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?
- Only Copper
 - Copper and aluminium
 - Copper and chromium
 - Copper and tungstun
- Q.2 Which of the following device is not used for holding the work in a drilling machine?
- step block
 - drill jigs
 - both step block and drill jigs
 - none of the mentioned

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- Q.3 In shaper, the tool head consists of _____
a) tool post b) tool slide
c) clamper box d) all of the mentioned
- 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)

- 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.