

- Q.27 Explain face milling and angular milling operations. (CO8)
- Q.28 Explain briefly welding and soldering. (CO2)
- Q.29 Explain briefly any five lathe operations. (CO7)
- Q.30 Write a short note on casting and forging? (CO2)
- Q.31 Write five applications of basic measuring instruments. (CO2)
- Q.32 Write five difference between capstan and turret lathe. (CO7)
- Q.33 Write the classification of various type of lathes. (CO7)
- Q.34 Define grinding. What is purpose of grinding?(CO4)
- Q.35 Name major industrial material processing methods. Explain any one method. (CO1)

#### **SECTION-D**

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

- Q.36 Explain radial drilling machine with help of neat sketch. (CO3)
- Q.37 Explain vertical milling machine with help of neat sketch. (CO8)
- Q.38 Describe the functions of various parts of lathe. (CO7)

**(Note:** Course outcome/CO is for office use only)

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

Time : 3Hrs.

M.M. : 100

#### **SECTION-A**

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

- Q.1 The cutting edges of a standard twist drill are called (CO3)
- a) Wedges
  - b) Lips
  - c) Flutes
  - d) Flanks
- Q.2 The shaper makes use of (CO6)
- a) Single point cutting tool
  - b) Multi point cutting tool
  - c) Both
  - d) None of these
- Q.3 An operation of reducing the diameter of a work piece over a very narrow surface is known as (CO7)
- a) Knurling
  - b) Facing
  - c) Counter boring
  - d) Grooving
- Q.4 In milling machine cutting tool is mounted on (CO8)
- a) Table
  - b) Column
  - c) Arbor
  - d) None of these

- Q.5 For harder material, helix angle of drill is (CO3)  
 a) between  $60^{\circ}$  to  $75^{\circ}$  b) less than  $45^{\circ}$   
 c) between  $75^{\circ}$  to  $90^{\circ}$  d) None of these
- Q.6 The cutting action of slotter occurs in (CO6)  
 a) Downward stroke b) Upward stroke  
 c) Horizontal stroke d) None of these
- Q.7 Taper turning can be done by (CO7)  
 a) knurling tool b) Facing tool  
 c) Form tool d) Drill
- Q.8 In forging process, metal are shaped by (CO2)  
 a) Impact b) Cohesion  
 c) Tension d) None of these
- Q.9 The function of cores in casting is to (CO2)  
 a) Increase the strength of mould  
 b) form internal cavities  
 c) Used as a part of gate assembly  
 d) All of these
- Q.10 The work holding device in surface grinding is known as (CO4)  
 a) Magnetic chuck b) Mandrel  
 c) Tool post d) None of these

### SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 \_\_\_\_\_ is a machine tool that removes material by rotating the work against a cutting tool. (CO7)

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- Q.12 The ram of shaper moves in \_\_\_\_\_ motion. (CO6)
- Q.13 A multi-point cutting tool designed to finish hole to a very close tolerance is known as \_\_\_\_\_ (CO3)
- Q.14 Cutting speed of planer is expressed in \_\_\_\_\_. (CO6)
- Q.15 Write two types of milling cutter. (CO6)
- Q.16 Collets, angle plates and mandrels are \_\_\_\_\_ of lathe . (CO7)
- Q.17 The process of generating holes in a work piece by removing the solid metal from it is called \_\_\_\_\_. (CO3)
- Q.18 The cross slide in lathe is mounted on \_\_\_\_\_. (CO7)
- Q.19 Chuck is a \_\_\_\_\_ device for the job. (CO7)
- Q.20 Which type of forging is done by deforming the metal at room temperature? (CO2)

### SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Define drilling. Explain principle of drilling. (CO3)
- Q.22 Write five accessories of drilling machine. (CO3)
- Q.23 Explain the working principle and function of planer. (CO6)
- Q.24 What is the difference between shaper and planer? (CO6)
- Q.25 Write five safety precautions during power hacksaw operation. (CO5)
- Q.26 Draw a neat sketch of horizontal milling machine and labeled its parts. (CO8)

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