

- Q.27 Explain the working principle of EDM.
- Q.28 Enlist the various applications of USM.
- Q.29 Describe various steps performed in Electro chemical grinding.
- Q.30 Explain the various parts and their function of plasma arc machining.
- Q.31 What is rapid prototyping? Write its applications.
- Q.32 Write the concept and function of polishing and lapping process.
- Q.33 What is blackening? Explain the process with diagram.
- Q.34 What are the main steps performed in electroplating process.
- Q.35 Enlist the various features of galvanizing process.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What are the different methods of gear manufacturing? Explain any three in brief.
- Q.37 Define copy milling. Explain the main parts and the function of each part of copy milling machine in detail.
- Q.38 Explain the construction and working of laser beam machining with diagram.

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2nd Year / Advance Diploma in Tool and Die Making
Subject:- Workshop Technology - II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Operation done to make periphery of grinding wheel concentric with its axis to recover its lost shape is known as
a) Loading b) Glazing
c) Dressing d) Trueing
- Q.2 Grinding wheel is specified as "C 8 K 5 B 17". Grain size of a wheel will be
a) Coarse b) Medium
c) Fine d) Very Fine
- Q.3 Hobbing is a special type of which of the following?
a) Casting b) Grinding
c) Drilling d) Milling
- Q.4 Which of the following material cannot be machined using electronic discharge machine?
a) Iron b) Aluminum
c) Copper d) Wood

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- Q.5 Drilling can be performed more effectively by _____ milling machine.
a) horizontal
b) vertical
c) can't say anything
d) none of the mentioned
- Q.6 Non-Traditional machining can also be called as _____
a) Contact Machining
b) Non-contact machining
c) Partial contact machining
d) Half contact machining
- Q.7 In chemical machining is material removal takes by?
a) Chemical reaction b) Erosion
c) Electron removal d) None of the mentioned
- Q.8 Which of the following process has the lowest cutting speed?
a) Drilling b) Honing
c) Milling d) Turning
- Q.9 What is the main principle of electroplating?
a) Hydrolysis b) Neutralization
c) Esterification d) Saturation
- Q.10 Which of the following is a method of applying a protective zinc coating to steel?
a) Galvanizing b) Glazing
c) Hydroforming d) Metal punching

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define surface grinding.
Q.12 What is dressing of grinding wheel?
Q.13 Describe spur gear.
Q.14 Define jig boring.
Q.15 Define pantograph.
Q.16 Define spark gap in EDM.
Q.17 Write working principle of EBM.
Q.18 What is rapid prototyping.
Q.19 Describe lapping.
Q.20 What is shot blasting.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain the function of various parts of grinding machine.
Q.22 Explain grinding wheel nomenclature.
Q.23 What is coolant? Write the main factors considered for selection of a coolant.
Q.24 Write a short note on valve grinding.
Q.25 What are the main parts of jib boring machine. Write their functions.
Q.26 Explain the various steps performed in profile grinding operations.