

- 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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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

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