

- Q.27 Explain the cutting tools used on profile grinding machine.
- Q.28 Explain the steps performed in copy milling operations.
- Q.29 Explain the construction of single lip grinder.
- Q.30 Write a short note on electro chemical machining.
- Q.31 Show the main parts of abrasive jet machining with diagram.
- Q.32 What is rapid prototyping? Give main function and applications of it.
- Q.33 Explain the honing process with diagram.
- Q.34 Give the main applications and advantages of electroplating.
- Q.35 Explain the principle of Galvanizing with neat sketch

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the main parts and working of surface grinding machine.
- Q.37 Explain the construction and working of EDM wire cut machine with diagram.
- Q.38 Explain the principle and process of Laser Beam Machining in detail.

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Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 In _____ grinding the grinding wheel is shaped to match the surface to be ground.
- a) External b) Internal
c) Surface d) Form
- Q.2 Use of tail stock in cylindrical grinding machine is _____.
- a) To drive the work piece
b) To give feed to the wheel head
c) Speed of grinding wheel
d) To support the other end of the work piece
- Q.3 Which types of electrode is used for drilling in Electro discharge machining?
- a) Flat electrode b) Cuboidal electrode
c) Tubular electrode d) Spherical electrode
- Q.4 The workpiece motion and tool motion respectively in a horizontal boring machine are _____
- a) Stationary and rotational
b) Rotational and translation
c) Translation and rotational
d) Stationary and rotational with translation

- Q.5 In Abrasive jet machining, work piece material of removed by which of the following means?
- Vaporization
 - Electro plating
 - Mechanical abrasion
 - Corrosion
- Q.6 With rapid prototyping, shapes of machine parts are created by
- building up layers
 - material removal techniques
 - forging
 - any of the above
- Q.7 _____ operating is usually performed after polishing.
- Lapping
 - Buffing
 - Honing
 - All of the above
- Q.8 Which of the following is a not a surface finishing process?
- Honing
 - Buffing
 - Lapping
 - Turning
- Q.9 What is the main principle of electroplating?
- Hydrolysis
 - Neutralization
 - Esterification
 - Saturation
- Q.10 Shot blasting is
- Process of cleaning moulding sand
 - Process of cleaning core sand
 - Process of supplying blast of hot air to cupola
 - Process of cleaning castings

SECTION-B

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

- Q.11 Define feed in grinding.
- Q.12 Write the use of coolant in grinding.
- Q.13 What is the advantages of Jig Boring Machine?
- Q.14 What is lip grinding?
- Q.15 What is principle of ultrasonic machining?
- Q.16 Define rapid prototyping.
- Q.17 Write the two advantages of honing process.
- Q.18 Write purposes of polishing.
- Q.19 Give principle of hard chrome plating.
- 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 Differentiate between internal and external operations.
- Q.22 Write a short note on work holding devices used in tool cutter grinder.
- Q.23 Show the name of main parts of gear grinding machine with diagram.
- Q.24 Explain the operations sequence which should be followed in gear cutting.
- Q.25 Write a short note on jig boring operations.
- Q.26 Show the main parts of jig grinding machine with diagram.