

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