

- Q.27 Write the process of profile grinding.
 Q.28 Explain the main parts and operations performed on pantograph machine.
 Q.29 Enlist the advantages of EDM.
 Q.30 Write a short note on electro chemical machining.
 Q.31 Describe abrasive jet machining. Give its applications.
 Q.32 Explain the working principle of electro chemical grinding.
 Q.33 Explain the honing process with diagram.
 Q.34 Describe blackening. Give its procedure.
 Q.35 Explain working principle of galvainizing.

SECTION-D

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

- Q.36 Explain the main gear manufacturing techniques with diagram.
 Q.37 Describe single lip grinder. Explain the main parts, functions and various operations performed on single lip grinder.
 Q.38 What is electronic beam machining ? Explain the working principle and process of electronic beam machining.

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Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 A grinding wheel becomes glazed (i.e. cutting edge takes a glass-like appearance) due to
 a) wear of bond
 b) breaking of abrasive grains
 c) wear of abrasive grains
 d) cracks on grinding wheel
- Q.2 Surface grinding are used to produces _____.
 a) Profile surfaces b) Curve surface
 c) Flat surfaces d) None
- Q.3 In Electrical Discharge Machining (EDM) process the metal removal is carried out by
 a) electrolysis
 b) melting and vaporisation
 c) fracture of work material due to impact of grains
 d) none of the above
- Q.4 Which of the following operation is used to enlarge the previously drilled hole?
 a) Reaming b) Tapping
 c) Boring d) None of the mentioned

- Q.5 Which type of materials can be machined using Abrasive jet machining?
a) Glass b) Ceramics
c) Hard materials d) All of the mentioned
- Q.6 What is the full form of IBM in the advanced machining processes?
a) Ion Beam Machining
b) Ion Beam Manufacturing
c) Ion Blast Machining
d) Ion Blast Manufacturing
- Q.7 In case of honing, the tool used is made in the form of a
a) cylinder b) stick
c) cube d) round
- Q.8 Which of the following abrasives is used for lapping gauges?
a) Diamond b) Boron carbide
c) Aluminium oxide d) Silicon carbide
- Q.9 Electroplating of chromium helps in preparing of

a) Car bumpers b) Saucepans
c) Cutlery d) Watches
- Q.10 Galvanising is _____
a) A zinc diffusion process
b) An oxidising process used for aluminium and magnesium articles
c) A process used for making thin phosphate coating on steel to act as a base or primer for enamels and paints
d) Is the process of coating of zinc by hot dipping

SECTION-B

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

- Q.11 Describe spur gear.
Q.12 What is sine table?
Q.13 What are advantages of Jig Boring Machine?
Q.14 Describe jig grinding.
Q.15 Write applications of electro chemical machining.
Q.16 Name the two abrasives used in ultrasonic machining.
Q.17 Write any two purposes of lapping processes.
Q.18 What are the main advantages of lapping process?
Q.19 Describe electroplating.
Q.20 Write the material used for galvanizing.

SECTION-C

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

- Q.21 Explain the grinding wheel nomenclature.
Q.22 Write a short note on cylindrical grinding.
Q.23 What are the main parts of tool cutter grinder. Write the function of each part.
Q.24 Explain the various steps performed in valve grinding.
Q.25 What is Jig Boring operation? Show with diagram.
Q.26 Explain the various steps performed in jig grinding operations.