

- 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 galvanizing.

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

- Q.5 Which type of materials can be machined using Abrasive jet machining?
- Glass
  - Ceramics
  - Hard materials
  - All of the mentioned
- Q.6 What is the full form of IBM in the advanced machining processes?
- Ion Beam Machining
  - Ion Beam Manufacturing
  - Ion Blast Machining
  - Ion Blast Manufacturing
- Q.7 In case of honing, the tool used is made in the form of a
- cylinder
  - stick
  - cube
  - round
- Q.8 Which of the following abrasives is used for lapping gauges?
- Diamond
  - Boron carbide
  - Aluminium oxide
  - Silicon carbide
- Q.9 Electroplating of chromium helps in preparing of \_\_\_\_\_
- Car bumpers
  - Saucepans
  - Cutlery
  - Watches
- Q.10 Galvanising is \_\_\_\_\_
- A zinc diffusion process
  - An oxidising process used for aluminium and magnesium articles
  - A process used for making thin phosphate coating on steel to act as a base or primer for enamels and paints
  - 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.