

- Q.26 Write a short note on pantograph and its working

Q.27 Explain the construction and working of cutting tool holder for copy milling machine.

Q.28 Write a short note on profile grinder.

Q.29 What are the main advantages of USM process?

Q.30 Describe working principle of Electro chemical machining.

Q.31 What is chemical machining and write its applications?

Q.32 What is Lapping? How is it done?

Q.33 Enlist the main features of hard chrome plating.

Q.34 What is electroplating? Explain the process with diagram.

Q.35 Describe galvanizing process. Explain the main function and features of the process

SECTION-D

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

- Q.36 Explain the construction and working of cylindrical grinding machine in detail.

Q.37 What is single lip grinder ? Explain its principle and working with the help of a suitable diagram.

Q.38 Explain the construction and working of abrasive jet machine with diagram.

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Roll No.

**2nd year / Branch : 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 Removing dull grains in order to make grinding wheel sharp is known as
a) Loading b) Glazing
c) Dressing d) Trueing

Q.2 Grinding wheel is specified as 'A 46 K 5 B 17' Grain size of a wheel will be
a) Coarse b) Medium
c) Fine d) Very fine

Q.3 Which of the following grinding machine will give a better result for rough machining?
a) Fine grain
b) Very fine grain
c) coarse grain
d) None of the mentioned

Q.4 Number of degree of freedom of a workpiece in space is equal to
a) 10 b) 12
c) 14 d) 16

- Q.5 Which of the following machine uses non conventional machining technique for metal removal?
- Grinding machine
 - Milling machine
 - Electric discharge machine
 - None of the mentioned
- Q.6 Non-Traditional machining is recommended when we need which of the following features?
- Complex shapes
 - High surface quality
 - Low-rigidity structures
 - All of the mentioned
- Q.7 In Abrasive jet machining, work piece material of removed by which of the following means?
- Vaporization
 - Electro plating
 - Mechanical abrasion
 - Corrosion
- Q.8 Which of the following is a surface finishing operation?
- Drilling
 - Honing
 - Milling
 - Turning
- Q.9 Which of the following is not an application of electroplating?
- Decorative purpose
 - Coating of metal
 - Metal protection
 - Corrosion prevention

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Q.10 Electroplating of chromium helps in preparing of

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- Car bumpers
 - Saucepans
 - Cutlery
 - Watches

SECTION-B

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

Q.11 Write function of grinding machine.

Q.12 Write use of coolant in machining.

Q.13 Describe rack and pinion gear.

Q.14 Describe jig boring.

Q.15 Define grinding.

Q.16 Define spark gap.

Q.17 Write the full form of AJM.

Q.18 Write working principle of IBM.

Q.19 Write the material used for hard chrome plating.

Q.20 Why shot blasting is required.

SECTION-C

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

Q.21 Write main parts and the functions of Jig grinding machine.

Q.22 Explain the main factors in selecting grinding wheel.

Q.23 What are the different types of abrasives used in grinding?

Q.24 Draw a neat sketch of a spur gear and show its various elements on it.

Q.25 Write the process of setting up jig grinder machine for operation.

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