

- Q.31 Enlist the different measuring systems employed in Jig Boring machines.
 - Q.32 Write a short note on pantograph.
 - Q.33 Write main parts and the functions of Jig grinding machine.
 - Q.34 Write a short note on Galvanizing.
 - Q.35 Write down standard accessories of Jig boring machine.

SECTION-D

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

- Q.36 What are the different methods of gear manufacturing? Explain any three in brief.

Q.37 What is EDM? Explain its principle with the help of a suitable diagram.

Q.38 What is electroplating? Explain the process with diagram.

No. of Printed Pages : 4

Roll No.

202024

**2nd Year / Branch : Advanced 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 Specification of the wheel grain size indicated by
a) numbers b) symbols
c) alphabets d) none of these

Q.2 Radial distance between the addendum circle and pitch circle is called
a) addendum b) basic circle
c) face d) flank

Q.3 Which is not a chemical machining process
a) chemical milling
b) chemical engraving
c) buffing
d) chemical blanking

Q.4 The process metal removal which utilizes an ionized stream of a gas jet by an electric arc is known as
a) plasma arc machining
b) chemical machining
c) abrasive jet machining
d) none of these

Q.5 Rapid prototyping is unique technique to.....for development of new products.

- a) reduce lead time b) to reduce the cost
 c) both a and b d) none of these
- Q.6** IC engine cylinders bores are finished in the best way by
 a) grinding b) lapping
 c) honing d) spot facing
- Q.7** Radial distance between addendum circle and pitch circle is called
 a) addendum b) pitch circle
 c) dedendum d) flank
- Q.8** Generally, the gears used to transmit power between parallel shafts are
 a) spur gears
 b) worm and worm gears
 c) bevel gears
 d) none of these
- Q.9** Boring can be performed more effectively by _____ milling machine
 a) horizontal b) vertical
 c) both a and b d) none of these
- Q.10** Which of the following material cannot be machined using electronics discharge machine?
 a) Iron b) Aluminium
 c) Copper d) Wood

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11** Surface grinder is used to grind.....Surfaces
- Q.12** Balancing of grinding wheel is essential to ensure uniform distribution of the mass of the wheel around its axis. (T/F)

(2)

202024

- Q.13** Write any two applications of ECG (Elctro Chemical Grinding)
- Q.14** The cutting of stainless still and non-ferrous metals is done with plasma arc machining. (T/F)
- Q.15** A clamping device holds the workpiece securely in a jig against the cutting forces(T/F)
- Q.16** Name any two types of unconventional machining methods.
- Q.17** Copy milling machine is used for.....
- Q.18** Honing is used for.....
- Q.19** What is USM?
- Q.20** Tool wear is high in electrical discharge machining.(T/F)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21** Explain the main factors in selecting grinding wheel.
- Q.22** Draw block diagram of a plane cylindrical grinder.
- Q.23** What are the main advantages of USM process?
- Q.24** Describe various steps performed in Elctro chemical grinding operations.
- Q.25** Describe working principle of Abrasive Jet machining.
- Q.26** Write a short note on Chemical Machining.
- Q.27** Give classification of various non conventional modern machining processes.
- Q.28** What is Rapid prototyping and write its applications.
- Q.29** Write short note on plasma arc machining.
- Q.30** What is Lapping? How is it done?

(3)

202024