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Roll No. 121753/031753

**5th Sem / Branch : Mech. Prod., T&D CNC, CAD/CAM
Found. & Forg. Mech. Engg. (Fabrication Tech.)
Mechanical Engg. (CAD/CAM Design & Robotics
Sub.: Workshop Technology III**

Time : 3 Hrs. M.M. : 100

SECTION-A

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

- Q.1 Which of the following materials may be used for the body of flap? (CO6)
a) Lead b) Copper
c) Soft cast iron d) All of the above

Q.2 Which of the following processes is used for obtaining reflective finish of the surface? (CO6)
a) Honing b) Lapping
c) Super finishing d) Buffing

Q.3 The _____ in an oil paint acts as a binder. (CO5)
a) Base b) Pigment
c) Vehicle d) Solvent

Q.4 Which of the following as a dielectric fluid? (CO4)
a) Kerosene b) Silicon oil
c) White spirit d) All of the above

Q.5 Which machining needs jet high temperature ionized gas? (CO4)
a) EBM b) LBM
c) EDM d) PAM

Q.6 In a Grinding wheel code, the first symbol is the. (CO3)

SECTION-B

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

- Q.11 Grinding is used for sharpening the cutting tools
(True/False) (CO1)

Q.12 Ultrasonic machining is a conventional type of
machining process. (True/False) (CO4)

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- Q.13 What is finishing? (CO6)
- Q.14 Electroplating is done to deposit _____ (Superior metal over inferior metals/ inferior metals over superior metals) (CO4)
- Q.15 In _____ milling, the cutting forces are directed downward. (CO1)
- Q.16 The cutting speed of milling cutter is expressed in _____. (CO1)
- Q.17 The hobs are only single threaded. (True/False). (CO2)
- Q.18 Surface roughness is the fine irregularities in surface (True/False) (CO3)
- Q.19 Name two types of enamels. (CO5)
- Q.20 The plasma arc machining, the electrode is made of tungsten. (True/False) (CO4)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain the principle of working of milling machine. (CO1)
- Q.22 Write the advantages of using cutting fluids in milling. (CO1)
- Q.23 Define the following
 a) Dedendum b) Module
 c) Circular pitch d) Total depth (CO2)
- Q.24 Define gear, What are its different types? (CO2)
- Q.25 What are the advantages and disadvantage of Hobbing. (CO2)

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- Q.26 Explain the principal of cylindrical grinding? (CO3)
- Q.27 What are the different types of abrasives used in grinding? (CO3)
- Q.28 Explain centerless grinding. (CO3)
- Q.29 Write advantages of Electro chemical machining. (CO4)
- Q.30 Write principle parts of EDM machine with diagram. (CO4)
- Q.31 Write the advantages of ultrasonic machining. (Co4)
- Q.32 What is powder coating? Write its types. (CO5)
- Q.33 What are the main functions, features of galvanizing process. (CO5)
- Q.34 Write a short note on hand lapping. (CO6)
- Q.35 What is the purpose of finishing surfaces of metal parts? (CO6)

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the principle and working of plasma arc machining with the help of neat sketch. (CO4)
- Q.37 Explain briefly the following milling operations. (CO1)
 a) Face milling b) Angular Milling
 c) Form milling
- Q.38 Explain the terms relating to spur gear with the help of neat sketch. (CO2)
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