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**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 : 3Hrs. 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 lap? (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

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- Q.6 In a Grinding wheel code, the first symbol is the. (CO3)
a) Bond grade b) Abrasive type
c) Structure d) None of the above
- Q.7 The gears used to connect two intersecting co-planer shafts are (CO2)
a) Spiral gears b) Spur gears
c) Bevel gears d) None of the above
- Q.8 The arbor of the milling machine is used to hold (CO1)
a) Job b) Cutting tool
c) Mandrel d) None of the above
- Q.9 The main function of cutting fluid is to. (CO1)
a) Provide lubrication
b) Improve surface finish
c) Cool the tool and work piece
d) None of the above
- Q.10 Gears can be cut easily on. (CO1)
a) Lathe b) Drilling
c) Milling machine d) None of the above

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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