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

Subject:- Workshop Technology - III

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Shaping can be performed more effectively by which milling? (CO2)
a) Horizontal b) Vertical
c) Can't Say d) None
- Q.2 Use of coating on milling cutters will increase the _____ of tool. (CO5)
a) Surface Hardness b) Corrosion resistance
c) Surface finish d) Generating
- Q.3 Gear shaping is related to _____ (CO6)
a) Template b) Form, tooth process
c) Hob d) Generating
- Q.4 As threads number increase on hob, it's accuracy (CO6)
a) Increase b) Decrease
c) Remains Same d) Can't say

- Q.5 Grinding wheel specify by "A46K5B16" grain size of wheel is (CO4)
a) Coarse b) Medium
c) Fine d) Very fine
- Q.6 In centreless grinding, work piece is advanced by (CO4)
a) Force exerted by regulating wheel
b) Manually
c) Automatic drive
d) None of above
- Q.7 Non-traditional machine is also called as (CO7)
a) Non-contact machining
b) Contact Machining
c) Partial contact
d) Half contact Machining
- Q.8 The process of providing layer of Zinc coating on iron is (CO8)
a) Electro plating b) Cementation
c) Metal cladding d) Galvanising
- Q.9 Which of the following is surface finishing process? (CO9)
a) Milling b) Turning
c) Boring d) Honing
- Q.10 For honing ceramics, which of following is used (CO9)
a) Silicone carbide b) Aluminum oxide
c) Diamond d) None of above

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SECTION-B

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

- Q.11 Name the types of knee column type milling machines. (CO2)
- Q.12 What is a side milling cutter? (CO2)
- Q.13 Define feed in case of milling machine. (CO6)
- Q.14 Name the types of gear shaving. (CO6)
- Q.15 Define Grinding operation. (CO3)
- Q.16 What is deburring used for? (CO8)
- Q.17 Define super finishing? (CO9)
- Q.18 Write application of electromechanical process. (CO2)
- Q.19 What is Galvanising? (CO8)
- Q.20 Write about powder coating. (CO6)

SECTION-C

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

- Q.21 Explain milling machine accessories and attachment. (CO2)
- Q.22 Explain up and down milling and compare both. (CO2)
- Q.23 Explain work holding devices in milling machine. (CO4)
- Q.24 Explain :- (CO2)
- a) Straddle milling b) Form milling
- Q.25 Explain different method of gear manufacturing. (CO6)

- Q.26 Explain electro chemical machining with diagram. (CO7)
- Q.27 Explain specification a grinding wheel. (CO7)
- Q.28 Explain various modern machining process. (CO8)
- Q.29 Explain mounting of grinding wheel. (CO4)
- Q.30 Describe various method of power coating techniques. (CO8)
- Q.31 Describe surface roughness and its measurement. (CO5)
- Q.32 Explain purpose of metal finishing. (CO9)
- Q.33 Describe honing, lapping and buffing process. (CO9)
- Q.34 Explain few coolant types used in honing. (CO9)
- Q.35 Explain principle and working of Electric discharge machining. (CO7)

SECTION-D

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

- Q.36 Explain different operation performed in milling machine with neat sketch. (CO5)
- Q.37 Explain Principle and working of USM with neat sketch. Also explain its advantages and disadvantages. (CO7)
- Q.38 Explain the followings (CO3)
- a) Safety measures in milling.
- b) Types of milling cutter.