

No. of Printed Pages : 4 181753/171753/121753
Roll No. /031753

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

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- 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 :-
 a) Straddle milling b) Form milling (CO2)
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 buffering 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
 a) Safety measures in milling.
 b) Types of milling cutter. (CO3)