

No. of Printed Pages : 4
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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 $(10 \times 1 = 10)$

Q.1 Form cutting can be performed more effectively by _____ milling machine. (CO2)

- a) horizontal
- b) vertical
- c) can't say anything
- d) none of the mentioned

Q.2 Milling cutters may be made of _____ (CO2)

- a) high speed steel
- b) cemented tipped
- c) super high speed steel
- d) all of the mentioned

Q.3 As the number of threads on the hob increases, it's accuracy _____ (CO4)

- a) increases
- b) decreases
- c) remain same
- d) can't say

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Q.4 Which of the following is the advantage of shaping process? (CO6)

- a) Large objects can be machined easily
- b) Thin or fragile workpiece can also be machined
- c) Lower machining time
- d) Higher tool life

Q.5 Operation done to make periphery of grinding wheel concentric with its axis to recover its lost shape is known as (CO4)

- a) Loading
- b) Glazing
- c) Dressing
- d) Trueing

Q.6 Which of the following grinding machine will give a better result for rough machining ? (CO4)

- a) Fine grain
- b) Very fine grain
- c) Coarse grain
- d) None of the mentioned

Q.7 In mechanical machining, material is removed by (CO7)

- a) Erosion
- b) Corrosion
- c) Abrasion
- d) Vaporization

Q.8 Which of the following is an example of hybrid machining ? (CO7)

- a) Ultrasonic Machining
- b) Electron Beam Machining
- c) Ultrasonic assisted electrochemical machining
- d) Beam Machining

Q.9 Surface roughness is typically measured in

- a) Micrometer
- b) manometer
- c) Milimeters
- d) centimetre

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- Q.10 Which of the following is a surface finishing operation? (CO9)
- a) Drilling b) Lapping
c) Milling d) Turning

SECTION-B

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

- Q.11 Define straddle milling. (CO2)
Q.12 Define indexing head. (CO5)
Q.13 Define gear shaping. (CO6)
Q.14 Expand PAM. (CO4)
Q.15 Define grinding wheel. (CO4)
Q.16 Write full form LASER. (CO7)
Q.17 What is the other name of electric discharge machining? (CO7)
Q.18 Define descaling. (CO8)
Q.19 Define waviness height. (CO9)
Q.20 Write purpose of lapping processes. (CO9)

SECTION-C

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

- Q.21 How is a milling machine specified? (CO2)
Q.22 Explain powder coating process of Metal spraying. (CO2)
Q.23 Explain USM and its applications. (CO2)
Q.24 Explain the process of gear hobbing. (CO6)
Q.25 Write a short note on gear shaping. (CO6)

- Q.26 Write any five advantages of grinding over other cutting processes. (CO3)
Q.27 How do you select a grinding wheel? (CO4)
Q.28 Explain balancing of grinding wheel. (CO4)
Q.29 State the function of dielectric fluids used in EDM processes. (CO7)
Q.30 What are the main advantages and disadvantages of electrochemical machining. (CO7)
Q.31 Give a few applications of meta spraying processes. (CO8)
Q.32 Define electro plating with the help of neat sketch. (CO8)
Q.33 Explain the honing process with diagram. (CO9)
Q.34 What is buffing process. Give purpose and application of buffing process. (CO9)
Q.35 Enlist any five purpose of finishing surfaces. (CO9)

SECTION-D

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

- Q.36 Explain any five different operations performed on a milling machine with neat sketch. (CO2)
Q.37 Explain centre less grinding and cylindrical grinding in details. (CO4)
Q.38 Explain the principle and process of Laser Beam Machining in detail. (CO7)