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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 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 machines 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)