S. B. Roll. No……

WORKSHOP TECHNOLOGY-III
5th Exam/Mech./5332/Dec'22
(For 2018 Batch Onwards)

Duration: 3Hrs. **M.Marks:75**

SECTION-A

Q1. Fill in the blanks. **15x1=15**

a. Universal dividing head is used for_____.
b. Two types of milling are _____and_____.
c. Gang milling is used for _____holes.
d. Soft grinding wheels are used for_____ work piece.
e. EDM process can be used for machining only _____materials.
f. In electroplating, the object to be coated is made _____.
g. Surface grinding is done to produce _____surfaces.
h. Center less grinding is used for _____jobs.
i. _____finishing process would remove the least material.
j. In electro discharge machining, the tool is made of_____.
k. Thin materials are machined by _____machining.
l. The cutting tool in a milling machine is mounted on_____.
m. Most commonly used gear profile is known as_____
n. Anodizing is a _____process.
o. LBM stands for_____.

SECTION-B

Q2. Attempt any six questions. **6x5=30**

i. Explain working principle of milling machine.
ii. Discuss briefly machine lapping process.
iii. Write advantages of Modern machining processes.
iv. Explain the purpose of grinding.
v. Explain the process of Anodizing using a labeled diagram.
vi. Explain Direct Indexing.
vii. Details diagram of column and knee type milling machine.
viii. Give a brief introduction to Gear Shaping.
ix. Explain Truing and Dressing of grinding wheel.

SECTION-C

Q3. Attempt any three questions. **3x10=30**

a. Explain in detail the principle and process of Laser Beam Machining using a neat labeled sketch.
b. Explain the elements related to grinding wheel: Abrasive, Grade, Structure and Bond.
c. Explain principle, application and advantages Lapping Process.
d. Explain working of milling machine with the help of neat sketch.
e. Explain constructional detail and working of Electron beam machining.