Sub Code:ME102

Paper Id: 140103 Roll No:

B TECH
(SEM-I) THEORY EXAMINATION, 2019-20
MANUFACTURING PRACTICES

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

a.	Describe any two carpentry joints.
b.	Define any two properties of engineering wood.
c.	What are the various fitting processes?
d.	State any two defects in forgings.
e.	What is the various hand tools used in black smithy shop?
f.	State any two types of moulding sand.
g.	Define milling operation
h.	What do you understand by welding?
i.	List any two operations, carried out in fitting shop.
j.	How is surface prepared for welding?

SECTION B

2. Attempt any *three* of the following: 10x3=30

a.	List out the types of wood and their properties also describe the various methods used for the seasoning of wood.
b.	Enumerate the various defects in forging also state the remedies.
c.	Define Arc welding with neat sketch
d.	What are the metals used in sheet metal works, also describe the types of hammers used.
e.	Explain the different of chisels used in fitting shop with neat sketch with labelling of any two of them.

SECTION C

3. Attempt any *one* part of the following: 10x1=10

a.	Explain different types of patterns with neat sketch.
b.	What are sand additives, Describe any two moulding processes in detail.

4. Attempt any *one* part of the following: 10x1=10

a.	What is the criterion used for the selection of cutting speed and feed in machine shop.
b.	Draw a block diagram of lathe machine with proper labeling of parts.

5. Attempt any *one* part of the following: 10x1=10

a.	Describe the different types of sheet metal operations with neat sketches.
b.	Write short note on sheet metal working machines.

6. Attempt any *one* part of the following: 10x1=10

a.	Describe resistance welding with neat sketch in detail.
b.	Explain weldability, describe the different types of welding processes.

7. Attempt any *one* part of the following: 10x1=10

a.	Write short note on heating devices used in black smithy shop.
b.	Describe the various smith forging operations in detail.