



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2020 Admission
I Semester Final Examination-November 2021

Pafe 1103

Workshop Technology (1+2)

Marks: 50
Time: 2 hours

I Choose the correct answer **(10x1=10)**

1. The purpose of seasoning of wood is to:
a) Reduce the voids
b) Remove the curves
c) Reduce the moisture content
d) change the direction of grains
2. The cutting edge of a cold chisel is about:
a) 30°
b) 45°
c) 60°
d) 75°
3. In arc welding, the electric arc is produced between the work and electrode by:
a) voltage
b) flow of current
c) contact resistance
d) all of these
4. A file removes the metal during:
a) forward stroke
b) return stroke
c) both forward and return strokes
d) none of these
5. Scribing block is used to:
a) hold the round bars during marking
b) check the trueness of flat surfaces
c) locate the centers of round bars
d) check the surface roughness
6. Threading is a
a) surface finishing process
b) machining process
c) primary shaping process
d) joining process
7. Which of the following material can be used for making patterns
a) Aluminium
b) Wax
c) Lead
d) All of these
8. A hacksaw blade is specified by its:
a) Length
b) Material
c) Width
d) Number of teeth
9. A diamond pointed chisel is used for cutting
a) Flat surfaces
b) Grooves
c) Key-ways
d) V-shaped grooves
10. The acetylene gas cylinder used in welding is usually painted with:
a) Black colour
b) White colour
c) Maroon colour
d) Yellow colour

II Write short notes on ANY FIVE of the following **(5x2=10)**

1. Differentiate between soft and hard wood.
2. What is the difference between smithing and forging?
3. Describe the types of joints used in welding processes with its neat diagram.
4. What do you understand by the term of mounting in lathe machines?
5. Define casting. List out any five casting methods.
6. Differentiate between up milling and down milling.
7. What do you understand by the quick return mechanism in the sharper machine.

III Answer ANY FIVE of the following (5x4=20)

1. What are the advantages and disadvantages of welded joints over other joints?
2. Describe, with the help of sketches, the three types of oxy-acetylene flames.
3. List out any five characteristics of a good timber.
4. Describe with sketch the following equipment of smithy shop:
 - a) Anvil
 - b) Swage block
5. Sketch and describe flat drill and twist drill. Name the various angles of twist drill.
6. Define the term rivet. What is the difference between permanent and temporary fastening?
7. Define the following operations:
 - a) Milling
 - b) Facing
 - c) Reaming
 - d) Boring

IV Write an essay on ANY ONE of the following (1x10=10)

1. Describe the different types of wood working processes.
2. Explain the Layout and working of Lathe machine with its neat diagram.
