



KERALA AGRICULTURAL UNIVERSITY
B. Tech. (Food Technology) 2025 Admission
I Semester Final Examination – February 2026

FMP 1114

Workshop Technology (1+2)

Marks: 50
Time: 2 hours

I Match the following

(10x1=10)

(Steel)	(Approx. Carbon percentage)
(a) Mild steel	1. 0.6 to 1.5 %
(b) Medium carbon steel	2. 1.5 to 2.1 %
(c) High carbon steel	3. 0.3 to 0.6 %
(d) Ultra high carbon steel	4. 0.008 to 0.25 %

Fill in the blanks

- Acetylene is stored in the gas cylinders in form.
Choose the correct answer
 - One micron is equal to
 - 0.1 mm
 - 0.01 mm
 - 0.001 mm
 - 0.0001 mm
 - Oxygen to acetylene ratio in case of oxidizing flame
 - 1 : 1
 - 1.5 : 1
 - 2 : 1
 - 1.2 : 1
 - The core product model required for any CAD/CAM system is
 - Data model
 - Solid model
 - Geometric model
 - Prototype
 - The melting point of the filler metal in brazing should be above
 - 420 °C
 - 520 °C
 - 700 °C
 - 600 °C
 - What is Seasoning?
 - Process of water removing
 - Process of burning timber
 - Process of adding preservatives
 - Process of adding glaze
- State True or False
- Braising is the process of stretching a piece of metal by hitting it with a round hammer.
 - The lead screw of a lathe with nut forms a turning pair.
 - Thermosetting plastics cannot be recycled.

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

1. State the various processes involved in the fabrication of glass.
2. Define composite material.
3. Classify the forging processes.
4. Define Welding.
5. Classify the Fusion welding.
6. State the Heat treatment processes
7. Define slotting machine.

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

1. Enlist the characteristics of good timber.
2. What are ceramic-matrix composites? Explain briefly.
3. Explain Briefly the following:
 - (a) Polymers
 - (b) Polymerization
4. Differentiate between 'pressure welding' and 'fusion welding'.
5. Explain the process of Nitriding.
6. Describe briefly hand tools and appliances used by blacksmith in various forging operations.
7. Define drill and explain their types.

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

1. Explain the Annealing purposes with its process and types in details.
2.
 - (a) Explain with a neat diagram "Tungsten inert gas (TIG)' welding process.
 - (b) Give the comparison between TIG and MIG welding processes.
