



KERALA AGRICULTURAL UNIVERSITY
B. Tech. (Agrl. Engg.) 2023 Admission
II Semester Final Examination – July 2024

Fpme.1201

Workshop Technology and Practices (1+2)

Marks: 50
Time: 2 hours

I Fill in the blanks (10x1=10)

1. is used to remove the slag by striking.
 2. The size of a shaper is given by.....
 3. is one of the most important devices for holding and rotating a job in a lathe.
 4. A file removes the metal during..... stroke.
 5. is acts as a support for blacksmith's work during hammering.
- State True or False**
6. Drilling is an example of oblique cutting.
 7. In machining metals, chips break due to ductility of work material.
 8. In milling machine, the metal is cut by means of a rotating cutter having multiple Cutting edges.
 9. Electronic components are joined by soldering.
 10. Tool signature consists of four elements.

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

1. Sketch the cross lap and corner lap joints in wood working.
2. What do you understand by the term plant layout?
3. What is the difference between smithy and forging?
4. Give the classification of drilling machines.
5. Sketch a gas welding set-up.
6. How to specify Milling Machine?
7. Differentiate between soldering, brazing and welding.

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

1. Illustrate and describe the process of semi-centrifugal casting.
2. Describe with suitable sketch the procedure for turning a taper using setting over the tailstock.
3. Explain the principle of Crank and Slotted Link mechanism of a shaper.
4. How can you specify a lathe?
5. Explain Metal Inert Gas Welding (MIG).
6. Differentiate between up milling and down milling.
7. Write short note on Shell Moulding.

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

1. Twist Drill Geometry
2. Forging Operations.
