



KERALA AGRICULTURAL UNIVERSITY
B.Tech. (Agrl. Engg.) 2020 Admission
II Semester Final Examination-October 2021

Fpme 1201

Workshop Technology and Practices (1+2)

Marks: 50
Time: 2 hours

I Fill in the blanks

(10x1=10)

1. The ability of a material to resist plastic deformation is known as _____.
 2. Deformation that occurs due to stress over a period of time is known as _____.
 3. Quick return motion is used in _____ machine.
 4. In three boxes moulding the middle box is known as _____.
 5. The thickness of the chip in upmilling is _____ at the beginning of the cut.
- State True or False**
6. Resistance developed by surface of any material is known as creep.
 7. A welding torch is mainly used for mixing and burning the gases in the desired proportions.
 8. Improper venting arrangement causes mechanical trapping of gases in the desired proportions.
 9. No useful work is done in forward stroke in shaper.
 10. Lathe cannot produce internal feature like holes.

II Write short notes on ANY FIVE of the following

(5x2=10)

1. List out the type of plant layouts.
2. List out the important carpentry tools.
3. Identify the welding equipments and tools.
4. Briefly explain about sand additives used in foundry.
5. Discuss on core and core prints.
6. List out the classification of drilling machines.
7. List out the main operations done by a milling machine.

III Answer ANY FIVE of the following

(5x4=20)

1. Discuss on factors influencing plant layouts.
2. With the help of neat sketches identify and explain the types of patterns used in foundry.
3. Discuss on casting defects.
4. Differentiate brazing and soldering.
5. Describe about the principle of arc welding.
6. Discuss on constructional details of shaper.
7. Briefly explain about the main accessories and attachments used in lathe

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Explain the constructional details of a drilling machine and describe the main operations done by a drilling machine.
2. Describe about oxyacetylene gas welding and the types of flames with the help of neat sketches.
