



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech.(Food Engg.)**  
**I Semester Re- Examination-November 2021**  
**2019 Admission**

Meen.1101

**Production Technology (2+1)**

**Marks: 50**  
**Time: 2 hours**  
**(10x1=10)**

**I Fill up the blanks**

1. \_\_\_\_\_ is a small weld, used to hold the two pieces during actual welding.
2. A gating system consists of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_
3. A shallow blow, generally found on the flat casting surface is called \_\_\_\_\_
4. \_\_\_\_\_ is the point where work piece velocity and roll velocity are equal.
5. \_\_\_\_\_ is cold working process
6. In \_\_\_\_\_ the cut part is waste
7. The Forehand welding is done at an angle of \_\_\_\_\_ degree
8. \_\_\_\_\_ is a high production unit and initial cost is low.
9. \_\_\_\_\_ is efficient and economical method for production of small quantity of castings
10. The splash core is provided at the bottom of the \_\_\_\_\_

**II Write short notes on ANY FIVE of the following**

**(5x2=10)**

1. Explain any four accessories used in the lathe machine.
2. Explain Resistance welding.
3. What are the main functions of flux?
4. Define permeability.
5. What is sprue?
6. How shrinkage cavity can be minimized?
7. What is shaper machine?

**III Answer ANY FIVE of the following**

**(5x4=20)**

1. Classify different kinds of lathe machines?
2. What is the function of RAM in shaper machine?
3. What do you mean by clearance between die and punch?
4. Define the terms roll bending, stretch forming and spinning
5. What is HAZ (Heat affected Zone) in welding?
6. What is difference between thermosetting plastics and thermoplastics?
7. What is cast iron? Explain its applications.

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

1. Explain principle of gas welding? What are welding defects? Give its causes.
2. How the pattern is different from an actual component? What are different types of shrinkages during the solidification of cavity?

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