

# KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food .Engg) 2013 Admission  
I<sup>st</sup> Semester Final Examination-January 2013

Cat. No: Meen.1101

Title: Production Technology (2+1)

Marks: 50

Time: 2hours

## I Fill in the blanks

(10 x 1=10)

1. Iron containing 2.5 per cent carbon is \_\_\_\_\_
2. Green sand contain \_\_\_\_\_ per cent clay
3. Flux used in Soldering is \_\_\_\_\_
4. The power hammer which work by air pressure is called \_\_\_\_\_ hammer
5. Heat treatment operation involving heating of steel above critical temperature and cooling it in air is \_\_\_\_\_
6. Melting temperature of cast iron is \_\_\_\_\_
7. Toughness is related to \_\_\_\_\_ Strength
8. The type of hammer used for extracting nail in a carpentry shop is \_\_\_\_\_
9. The process of pouring of liquid metal in a mould is called \_\_\_\_\_
10. \_\_\_\_\_ flame is used in gas cutting

## II Write short note on any FIVE questions

(5 x 2=10)

1. Ferrous metal and its classification
2. Cutting tools in a carpentry shop
3. What are the types of flames in an oxy-acetylene flame
4. Sheet metal operation
5. Casting defects
6. Runner and riser
7. Seasoning of woods
8. Pattern making allowance

## III Answer any FIVE questions

(5 x 4=20)

1. Iron carbon equilibrium diagram
2. What do you mean by alloying
3. What are the types of welded joints and what are their failures
4. What are the advantages of casting over welding
5. Explain how a cross-halving joint is made
6. Steam hammer
7. What are the principle parts of a drilling machine

**IV Answer any ONE question**

**(10 x 1=10)**

1. A) Hardening of metals      B) Hot and cold working process
2. Draw and explain the different parts of a lathe

\*\*\*\*\*