

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2015 Admission
Ist Semester Final Examination-February -2016

Cat. No: Meen.1101

Marks: 50.00

Title: Production Technology (2+1)

Time: 2 hours

I Fill up the blanks

(10 x 1=10)

1. The definite and orderly manner and form of the atoms producing a small, repeating, three dimensional, geometrical pattern in aggregate is called _____
2. The property of a material by virtue of which it can be rolled or hammered into thin sheets is called _____
3. A metallurgical process in which large pieces of metal such as slabs or billets are deformed between rollers at high temperature to form thinner cross sections is known as _____
4. The working of metals above their recrystallization temperature is known as _____
5. The process of decreasing the cross-section of a bar and increasing its length is called _____
6. An excess of oxygen in gas welding flame is known as _____
7. _____ is a filler metal used in soldering
8. The _____ provides various movements to the cutting tool to perform various operations on the lathe
9. The deflection of an electric arc from its normal path due to magnetic forces is known as _____
10. Bronze is an alloy of _____ and _____

II Answer any Five questions

(5 x 2=10)

1. Distinguish between case hardening and surface hardening
2. Welding joints
3. Moulding methods
4. Iron-carbon equilibrium diagram
5. Distinguish between shaper and planer
6. Differentiate between smithy and forging
7. Blast furnace

III Answer any Five questions

(5 x 4=20)

1. Explain the quick return mechanism of a shaper with a neat sketch
2. Explain the grinding process and write about kinds of grinding machines
3. Explain the principal parts of a milling machine
4. Define pattern making and explain pattern making tools
5. Explain the tools and machines used for forging
6. Explain the hot working and cold working processes
7. Explain the ferrous metals and its classifications

IV Answer any one question

(1 x 10=10)

1. Mention the principal parts of a lathe and explain the basic operations performed
2. What is meant by sheet metal work and explain the working process of it along with advantages and disadvantages