



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Engg.) 2018 Admission
I Semester Final Examination-January 2019

Meen.1101

Production Technology (2+1)

Marks: 50
Time: 2 hours

I Fill up the blanks

(10x1=10)

- 1 The metal transfer in MIG welding occurs by heating both _____
- 2 _____ is used to prepare moulds of large symmetrical castings
- 3 _____ is used to check the mould box positioning.
- 4 _____ is the strength of the sand in moist condition.
- 5 The strainer is used to remove dross from the _____
- 6 The plaster mould casting is used for _____ materials
- 7 _____ are used to increase the heat extraction capacity of mould sands.
- 8 In _____ the cut part is useful
- 9 _____ are the substances mixed with monomers to obtain desire properties in polymers
- 10 The backhand welding is done at an angle of _____ degree

II Write Short notes on ANY FIVE of the following

(5x2=10)

- 1 Polarity and types of polarities.
- 2 Spot welding.
- 3 Name the welding techniques.
- 4 Permeability.
- 5 Vent holes.
- 6 Flash.
- 7 What is the minimum voltage required for arc initialization. How much temperature is produced during this process?

III Answer ANY FIVE of the following

(5x4=20)

- 1 How is shaper machine different from Planar machine?
- 2 Arc blow.
- 3 Give applications of different flames in welding.
- 4 Split pattern and match plate pattern.
- 5 Uses of directional solidification.
- 6 Give the names of various cold working processes.
- 7 Extrusion force and extrusion ratio.

IV Answer ANY ONE of the following

(1x10=10)

- 1 Explain constructional details of lathe machine with the help of neat diagram. What are the main operations that can be performed on lathe machine?
- 2 What are the various types of furnaces used in foundry shop. Discuss their relative merits and demerits.
