KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg) 2014 Admission
IInd Semester Final Examination-June/July -2015

Title: \	o: Fpme: 1204 Workshop Technology (2+1)	Marks: 50.00 Time: 2 hours
	up the blanks	$(10 \times 1=10)$
١.	The relation between the two parts where one is inserted into the other w	ith a certain degree o
	tightness or looseness is known as	
2.	is measure of the amount of energy a material can absorb before	ore actual failure tak
3.	About 85% of nickel production is obtained fromores	
4.	is used for measuring temperature of a furnace during heat treature	
5.	The machinability of a metal is indicated by percentage that is termed as _	
	rue or False	
	The major constituents of gun metal is tin	
	Flux is charged into a blast furnace to lower the melting point of the ore	
	The carbon content varies up to 1.5 % in steels	
	Brass is used in patterns, particularly when metal patterns are large	
	Silica is defined as those particles of sand (under 20 microns in diameter)	that fail to certle at a
	rate of 25 mm per minute, when suspended in water	mat fait to settle at a
	short notes on any FIVE questions	(5 x 2=10)
	ist out varieties of cast iron that are in common use	(5 x 2—10)
	hat are the necessary properties of bearing alloy	
	riefly explain the purposes and methods of heat treatment	
	rite a note on	
	rc cutting	
	ronze welding	
	opper and its alloys	
	andards of measurement	
	short essay on any FIVE questions	(5 - 4-35)
		(5 x 4=20)
	rite the advantages and disadvantages of various types of plant lay outs	Also describe the
	scuss on hearth furnaces used for heat treatment of metals	
	rite about surface quality	

- 4. Narrate the advantages and limitations of non-pressure welding technology
- 5. Discuss on classification of timbers
- 6. Briefly explain elements of interchangeable systems in manufacturing processes
- 7. Briefly explain various measuring instruments and gauges used in mechanical workshops

IV Write an essay on any ONE

 $(1 \times 10=10)$

- 1. Explain in detail various moulding processes
- 2. Discuss on wood working machines
