me.1201

KERALA AGRICULTURAL UNIVERSITY B.Tech (Agrl.Engg.) 2016 Admission II Semester Final Examination-July-2017

Workshop Technology and Practices (1+2)

Marks: 50 Time: 2 hours

I		Fill up the blanks	(10x1=10)
	1 .	The resistance of material to elastic deformation is called	(1011 10)
	2	The maximum stress that any material will withstand before destruction is called its strength.	
	3	are separate shapes of sand that are required to form the hollow interior of the casting.	
	4	is that property of a material which enables it to draw out into thin wire.	•
	5	is the major constituent of gun metal.	
		State True or False	
	[~] 6	All iron and steel products are derived originally from pig iron.	
	7	Phosphorus in cast iron aids fusibility and fluidity.	
	8	Flux is charged into a blast furnace to increase the melting point of the ore.	•
	9	Brass is used in patterns, particularly when metal patterns are large.	
	10	Boring is the process of producing round holes, through or blind, in the wood.	
II		Write short notes on any FIVE	(5x2=10)
	. 1	Discuss advantages and disadvantages of various types of plant layouts.	•
i.	^ 2	Types of welding	
	3	Sand additives used in foundry.	
	4	Soldering	
	5	List out the classifications of lathes.	
	6 7	List out the process involved in production of castings.	
	7	Hardness and brittleness.	
III 🚎	r.	Answer any FIVE	(5x4=20)
	1	Discuss on types and advantages of core prints in casting process.	
	2	Discuss on safety in industrial workshops.	
I	3	Discuss on 'oxygen cutting' process of iron and steel.	
	4	Discuss on moulding tools and equipments.	
	5	Discuss on types of cores.	
	6	Discuss on seasoning of wood.	
	7	Discuss on carpentry joints	
\mathbf{v}		Write essay on any ONE	(1x10=10)
	1	Explain the constructional details of a standard shaper machine and describe the	()
		main operations done by a shaper.	
	2	Discuss in detail various types of patterns used in foundry.	
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