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## KERALA AGRICULTURAL UNIVERSITY B.Tech.(Agri. Engg) 2018 Admission II Semester Final Examination- June 2019

## Workshop Technology and Practices (1+2)

			Marks: 50
I		Fill in the blanks Ti	me: 2 hours
		1 of a material is its ultimate strength in tension.	(10x1=10)
		2 Split patterns when mounted with one half and the second states	
		2 Split patterns when mounted with one half on one side of a plate and the other opposite on the other side of that plate, the pattern is called a pattern.	half directly
		between two electrodes.	
	4	For holding steel drill-bits up to about 14 mm in diameter, which are having	shanks, a
	5	motion of the tool or the work State true /false	
	6	and tenon joint.	en mortise
	7	= second is employed to produce seamed tunes or nines	
	8	A neutral flame is one in which there is an excess of acetylene.	
	9	The main property of divisibility of material is taken advantage of in the casting of s pulleys.	teel
	10		
_			k having
		Write Short notes on any FIVE of the following	(5x2=10)
	1	Control-interlocking for safety in a plant	(3,2-10)
	2	Artificial/Kiln seasoning of wood	
	3	Brazing	
	4	Gating system in moulding	
	5	Die casting	
	6	Universal shaper	
	7	End milling	
		Answer any FIVE of the following.	(5
	1	Describe briefly the following four types of carpentry chisel:	(5x4=20)
		a) Firmer chisel b) Dovetail chisel c) Mortise chisel d) Gouge chisel	
	2	Draw the neat diagrams of the following four types of joint made in gas welding:	
		a) Square butt-weld b) Single V-weld	
		c) Single fillet-lap-weld d) Corner fillet-weld	
	3	Explain briefly about the following two types of core in moulding:	
		a) Horizontal core b) Balanced core	
	4	What are meant by the following terms coming under twist-drill-bit nomenclature?	
		a) Chisel edge b) Tang c) Flute and its four functions d) Land	
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			P.T.O

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- Explain briefly the operation of straight turning in a lathe operation.
- Show with the aid of neat drawings the main effect produced on a short mild-steel bar du 6 the following when upsetting in smithy. Need to make, only the drawings.
  - a) Heavy hammer blows on a uniformly heated bar.

  - b) Comparatively light hammer blows on a uniformly heated bar. c) Light hammer blows on a bar heated only at the end placed on the anvil surface.
- d) Medium hammer blows on a bar heated only at the middle. Describe briefly about flux-cored arc welding. 7

## Answer any ONE of the following

- Explain plant layout involving Process Layout, and Product Layout, indicating what these a 1 and their merits and demerits.
- Explain lathe carriage involving Saddle, Cross-slide, Compound rest/slide, Tool post, a 2 Apron, explaining what these are, and their functions.

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