MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Tech. (Agril. Engg.)

Seme		: II (New)	Term	:	II Academic Year : 2017-18
Cours		: FMPE 123 : 2 (1+1)	Title	:	Workshop Technology
Day &			Time	:	09.00 to 11.00 : Total Marks : 40
Note: 1. Solve ANY EIGHT questions from SECTION "A". 2. All questions from SECTION "B" are compulsory. 3. All questions carry equal marks. 4. Draw neat diagrams wherever necessary.					
SECTION "A"					
Q.1	Explain iron-carbon equilibrium diagram especially for iron cementite system.				
Q.2	Discuss effect of chemical element on iron.				
Q.3	What is annealing? Discuss full annealing method of heat treatment.				
Q.4	Enlist the types of pattern making and explain solid pattern.				
-Q.5	Explain types of arc welding methods and discuss carbon arc welding.				
Q.6	Enlist the types of lathes and explain in detail speed lathe and the bench lathe.				
Q.7	Enlist the types of shapers and explain crank shaper.				
_Q.8	Enlist the types of milling machine and explain plain milling machine.				
Q.9	Enlist the types of drilling machine and explain the sensitive drilling machine.				
Q.10	0 Enlist the types of moulding sand and explain green sand.				
SECTION "B"					
Q.11	Fill in the blanks.				
	1) The process of producing a structure of globular pearlite is known as				
	 Homogenising is carried out at temperature of at which diffusion proceeds quite easily and to some extent, equalizes the composition of steel. 				
	3) Green sand that has been dried or baked after the mould is made is called				
	4) A thin projection of metal, not intended as a part of the casting is called the				
Q.12	2 Define the following terms.				
	1)	Shaper	2)	M	illing machine
	3)	Drill hole	4)	W	elding
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