Reg. No. :					

Question Paper Code: 58765

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

One credit Course

Mechanical Engineering

15UME865- JIGS & FIXTURES

	100	TILLOUG UTC	o co i mii e nee				
		(Regulat	ion 2015)				
Dur	ation: One hour	Answer AL	L Questions	Maximum: 30 Marks			
	PA	RT A - (10 x	x 1 = 10 Marks				
1.	The following is(are) the function(s) of a						
2.	(a) Holding (b) Lo The following holds the work pi (a) Loading device	ocating ece securely	` ,	ainst the cutting forces			
3.	(c) Guiding deviceWith the use of Jigs and fixture(a) Increases	total cost of j	(d) Indexing deviproduction(b) Decreases	ce			
4.	(c) Remains same The following type of jig is used	l to drill a se	· / C	sed in any production le along a circle			
5.	(a) Index jig (b) Plate A fixture does not	type jig	(c) Open type jig	(d) Pot type jig			
	(a) Holds the workpiece		(b) Locate the work piece				
6.	(c) Guide the tool Which of the following is not co	orrect about f	(d) All of the abo ixture?	ve			
	(a) It is used to hold the work		(b) It is used to p	osition the work the work			
	(c) It assures high accuracy of pa	arts	(d) It is used to a	(d) It is used to guide the cutting tool			

7.	The following jig can be used for several different work pieces and operations								
	(a) T	Template jig	(b) Multi-station jig	(c) Index jig	(d) Universal jig				
8.	Jigs and Fixtures are used for								
	(a) Mass production(c) Both 'A' and 'B'			(b) Identical parts production(d) None of the above					
9.	The jigs and fixtures can be constructed through								
	(a) (Casting	(b) Fabrication	(c) Welding	(d) All of the above	ve .			
10.	With the use of Jigs and fixture quality control expenses will								
	(a)	Reduce							
	(b)	Increases							
	(c)	(c) Jigs and fixture are not used in any production process uide the tool							
	(d)	None of the ment	ioned						
			PART – B (1x 20= 20 Marks)					
11.	(a)	Explain the advance clamping devices	-	the uses of pneumatic and hydraulic					
			Or						
	(b)	Explain briefly al	oout Quick change fix	ture.		(20)			