Question Paper Code: 98761

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

One credit

Mechanical Engineering

19UME861 – JIGS AND FIXTURES

		19000E801 - J	OS AND FIXTURES			
		(Regu	lation 2019)			
Duration: 1.30 hours				Maximum: 30 Marks		
		Answer A	ALL Questions			
		PART A - (5x 2 = 10 Marks			
1.	The following holds the work piece securely in a jig or fixture against the cutting forces				CO1-U	
	(a) Locating device		(b) Clamping dev	(b) Clamping device		
	(c) Guiding device		(d) Indexing device	(d) Indexing device		
2.	The jigs and fixtures can be constructed through				CO1-U	
	(a) Casting	(b) Fabrication	(c) Welding	(d) All of the	e above	
3.	The following jig can be used for several different work pieces and operations CO				CO2-U	
	(a) Template jig	(b) Multi-stat	tion jig (c) Index jig	(d) Universa	ıl jig	
4.	A fixture does not				CO2-U	
	(a) Holds the workpiece		(b) Locate the wo	(b) Locate the workpiece		
	(c) Guide the tool		(d) All of the above	ve		
5.	The part is used to rest the workpiece in proper position of the jigs			CO2-U		
	(a) Locators	(b) Clamps	(c) Drill bush	(d) Jig bod	ly	
		PART – F	$3(2x\ 10 = 20 \text{ Marks})$			
6.	(a) List the vario	-	xplain any four of them in v	with CO1-U	(10)	

Or

(10)

(b) List any four types of jigs and Fixture construction. State the CO1-U

advantages of each

- 7. (a) Explain Inspection and Welding fixture with suitable sketches CO2-U (10)
 - (b) Explain briefly about Quick change fixture. CO2-U (10)