#### UNIT-I

2.	<ol> <li>Write in detail about design of guide pins &amp; pins.</li> </ol>						
3.	Discuss about :						
	(a)	Location methods	10				
	(b)	Degree of freedom	10				
		UNIT – II					
4.	Write about :						
	(a)	Functions of Jigs	10				
	(b)	Material used in fixture	10				
5.	Discuss about :						
	(a)	Mechanical actuation fixtures	10				
	<b>(b)</b>	Analysis of clamping force	10				
		UNIT – III					
6.	Wr	Write about :					
	(a)	Angle plate jigs	10				
	(b)	Automatic drill jig	10				
7.	. Wr	ite about :					
	(a)	Plate latch jig	10				
	(b)	Design & development of jigs	10				
226	11-	-(P-3)(Q-9)(23) (2)					

### UNIT - IV

	Discuss	in	detail	about	design	and	development	of
	fixtures for given component.						20	

9. Write in detail about inspection and welding fixtures

20

22611- -(P-3)(Q-9)(23) (3)

## 22611

# M. Tech. 2nd Semester (ME) CBCS Scheme (Elective - II) Examination – June, 2023

### **JIGS & FIXTURE**

Paper: MTME22D2

Time: Three Hours ]

[ Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

- Write short notes on the following:
- $5 \times 4 = 20$
- (a) Torque exerted by machining methods
- (b) Purpose of fixture
- (c) Jigs
- (d) General principles of boring