No. of Printed Pages: 3

Time: 3 hours

**BIME-009** 

Maximum Marks: 70

## B.Tech. - VIEP - MECHANICAL ENGINEERING (BTMEVI)

## **Term-End Examination**

## □□□□□□ December, 2018

## **BIME-009: PRODUCTION TECHNOLOGY - I**

Not		nswer any <b>five</b> questions. All questions ca qual marks.	rry
t.	(a)	What do you mean by green sand? Briefly explain the properties of green sand.	7
	<b>(b)</b>	Explain the method of determining the moisture content in moulding sand.	7
2.	(a)	What is master pattern? Briefly explain pattern allowances with neat sketches.	7
	<b>(b)</b>	Explain the process of resistance spot welding with neat sketch.	7
3IME-009		1 P.T	.O.

3.	(a)	Distinguish between drop forging and press	
		forging processes with reference to the	
		process and products obtained.	7
	(b)	Explain the process of ultrasonic welding	
		with neat sketch. Also give its advantages	
		and disadvantages.	.7
4.	(a)	Name any seven types of welding defects.	
		Write their causes and remedies.	7
	(b)	What do you mean by forgeability? Explain	
		the upset forging with neat sketch.	7
<b>5</b> .	(a)	What are the different types of extrusion	
	(=)	processes ? Explain any one method with	
		neat sketch.	7
	(b)	Explain deep drawing process with neat	
		sketch.	7
6.	(a)	What are the different types of plastic	
		moulding processes? Explain any one of	
		them with neat sketch.	7
	(b)	Explain how a grinding wheel is specified.	7
	(b)		

- 7. Write short notes on any **four** of the following:  $4 \times 3\frac{1}{2} = 14$ 
  - (a) Casting Defects
  - (b) High Velocity Forming
  - (c) Cold Spinning
  - (d) Forging Die Materials
  - (e) Rolling Mill
  - (f) Soldering