#### No. of Printed Pages : 2

01005

**BME-055** 

## DIPLOMA IN MECHANICAL ENGINEERING

### **Term-End Examination**

## June, 2012

# BME-055 : COMPUTER INTEGRATED MANUFACTURING

Time	: 2 hours	Maximum Marks : <b>70</b>
Note	: Attempt <b>any seven</b> quest All questions carry <b>equal</b>	
1.	Discuss the concept of CIM	I wheel. 5
	AND	1
	What are the potential ben	efits of CIM ? 5
2.	What do you mean by C. CIM ?	AD, CAD/CAM and 7
	What are the diffrent types	of CAM application ? 3
3.	What do you mean by Insp	pection accuracy ? 5
	What are type I and type II	errors? 5
<b>4.</b>	What is feedback process c	ontrol? 4
	Differentiate between on-line/in-process and on-line/post-process inspection methods.	
BME	-055 1	P.T.O.

	0.11	
(a)	Computer-Controlled System	6
(b)	Remote Dispatch Control System	2
(c)	Manual Control System	2
Discuss the following Robot Configuration :		
(a)	Cartesian Robot	3
(b)	Cylindrical Robot	3
(c)	Polar Robot	2
(d)	Jointed Arm	2
Briefly explain about the components of AS/RS. What are the various types of AS/RS? Briefly explain the same.		10 10
Wha	t do you understand by FMS ?	4
		6
What	t do you mean by Machine loading ?	4
Wha	t are the main objectives for machine	6
	meth (a) (b) (c) Disc (a) (b) (c) (d) Brief Wha expla Uffe FMS Wha Wha	<ul> <li>(b) Remote Dispatch Control System</li> <li>(c) Manual Control System</li> <li>Discuss the following Robot Configuration : <ul> <li>(a) Cartesian Robot</li> <li>(b) Cylindrical Robot</li> <li>(c) Polar Robot</li> <li>(d) Jointed Arm</li> </ul> </li> <li>Briefly explain about the components of AS/RS.</li> <li>What are the various types of AS/RS ? Briefly</li> </ul>

#### BME-055

2