No. of Printed Pages: 3

**BME-054** 

## DIPLOMA IN MECHANICAL ENGINEERING (DME)

## **Term-End Examination**

00795

December, 2014

**BME-054: MANUFACTURING PROCESS - II** 

Tin	ne : 2 I	hours Maximum Marks:	Maximum Marks : 70	
Note: Answer any seven questions. All questions conequal marks.			ırry	
1.	(a)	Explain using a neat sketch, how wire drawing of metals is done.	5	
	(b)	Differentiate between piercing and blanking. Explain using a sketch, a die used for piercing and blanking.	5	
2.	(a)	Briefly explain the different types of rolling mills indicating the direction of rollers.	5	
	(b)	Describe in detail, the process of production of metal powders in powder metallurgy.	5	
3.	(a)	List the different types of grinding machines. Give their specifications.	5	
	(b)	Briefly describe the different types of abrasives used in grinding wheel manufacture. Explain the desirable properties of abrasives.	5	

4.	(a)	What are hones? How is the honing tool fabricated?	5
	(b)	With a neat sketch, explain the lapping process.	5
5.	(a)	Explain the need for application of metallic and non-metallic coatings.	5
	(b)	Using a neat sketch explain the electroplating process.	5
6.	(a)	What is galvanizing? Explain the galvanizing process followed for pipes.	5
	(b)	What are the advantages of anodizing? How is this process carried out? Explain.	5
7.	(a)	List the different tools used for gas welding. Also give the colour coding used in gas welding.	5
	(b)	How are electric arc welding electrodes specified?	5
8.	(a)	With neat sketch, distinguish between spot welding and seam welding.	5
	(b)	List any five welding defects and give reasons for welding defects.	5
9.	(a)	Describe in detail how brazing is carried out.	5
	(b)	Distinguish between soldering and brazing with examples.	5

- 10. Write short notes on any **two** of the following:  $2 \times 5 = 10$ 
  - (a) TIG Welding
  - (b) Constructional features of a band saw machine
  - (c) Soldering defects and their remedies
  - (d) Thermit welding