No. of Printed Pages: 3

BME-054

BME-054

P.T.O.

DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination December, 2015

BME-054: MANUFACTURING PROCESS - II

Tin	re : 2 i	hours Maximum Marks:	Maximum Marks : 70	
Note: Answer any seven questions. All questions carresponds equal marks.				
1.	(a)	What is Powder Metallurgy? How is it different from casting?	5	
	(b)	Distinguish between hot working and cold working process.	5	
2.	(a)	Explain the process of extrusion with a neat sketch.	5	
	(b)	What is the role of recrystallization temperature in metal forming? Explain in detail.	5	
3.	(a)	How are the grinding wheels classified and specified? Discuss the salient features of alphanumeric system used for grinding wheel specification.	5	
	(b)	Discuss the parameters used in grinding operation.	5	

4.	(a)	What is surface roughness? How is it measured? Explain the centre line average method.	5
	(b)	Explain the honing process with a neat sketch.	5
5.	(a)	How is the super finishing attachment used on centre lathe? Explain with a suitable sketch.	5
	(b)	Explain the process of metal spraying with a neat sketch.	5
6.	(a)	What are applications of metallic and non-metallic coating? Explain.	5
	(b)	Explain the process of anodizing with a neat sketch.	5
7.	(a)	Explain the process of electric arc welding with a neat sketch.	5
	(b)	Give various welding defects. How can these be minimized?	5
8.	(a)	Explain the laser beam welding process with a neat sketch.	5
	(b)	Describe the various steps of soldering procedure.	5

- 9. (a) Explain the brazing process and give itstwo important applications.
 - (b) Enumerate the construction and working of power saw with a neat sketch. 5
- 10. Write short notes on any **two** of the following: $2\times 5=10$
 - (a) Sintering
 - (b) Specification of Electrodes
 - (c) Seam Welding
 - (d) Care and Use of Band Saw