

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination

June, 2016

00630

BME-054 : MANUFACTURING PROCESS – II

Time : 2 hours

Maximum Marks : 70

Note : Answer any seven questions. All questions carry equal marks.

1. (a) Explain the process of tube drawing with a neat sketch. 5
(b) How are the metal powders produced ? Explain. 5
2. (a) Describe the process of forging with a neat sketch. 5
(b) Discuss the balancing of grinding wheel. 5
3. (a) Explain centreless grinding with a neat block diagram. What type of jobs can be finished using centreless grinding ? 5
(b) What are the defects in grinding ? Explain its remedies. 5

4. (a) Explain the lapping process with a neat sketch. 5
- (b) What are the super finishing processes ? State their applications. 5
5. (a) Discuss the process of Polishing and Buffing. 5
- (b) Explain the process of Galvanising. State its applications. 5
6. (a) Explain the principle of Electroplating process with a neat sketch. 5
- (b) What are the advantages and disadvantages of metal finishing and metal coating process ? 5
7. (a) Describe the process of TIG welding with a neat sketch. 5
- (b) What are the safety precautions associated with electric arc welding ? 5
8. (a) Explain the process of submerged arc welding with a neat sketch. 5
- (b) What are the soldering defects and their remedies ? 5

9. (a) Explain the process of Brazing with a neat sketch. 5
- (b) How do you classify the sawing machines ? Explain the working of horizontal band saw machine with a neat sketch. 5
10. Write short notes on any *two* of the following : $2 \times 5 = 10$
- (a) Rolling Process
- (b) Cutting Fluids used in Grinding
- (c) Projection Welding
- (d) Specification of Grinding Wheel
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