

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination

00322

December, 2017

BME-054 : MANUFACTURING PROCESS – II

Time : 2 hours

Maximum Marks : 70

Note : Answer any seven questions.

1. (a) Briefly explain any four methods of Extrusion processes with neat sketches.
(b) Explain the Spinning process with a neat sketch. 5+5
2. (a) Write the process of seamless pipes manufacturing.
(b) Write about Stretch Forming. 5+5
3. (a) Write about the abrasives of aluminium oxide and silicon carbide.
(b) Explain different types of cutting fluids used in grinding wheels. 5+5
4. (a) What are the Bond materials involved in the manufacture of grinding wheels?
(b) How are dressing and truing related in grinding? 5+5

5. (a) Write the applications of Honing process.
(b) What is Burnishing process ? How does it help on surface finish ? 5+5
6. (a) What are the major methods of coating ? Write in detail.
(b) Write about Tin plating. 5+5
7. (a) Write the comparison between TIG and MIG Welding.
(b) What are the common welding defects ? 5+5
8. (a) What are the advantages of Laser Welding over Electron-beam Welding ?
(b) What are the various methods of Brazing ? Explain any one method. 5+5
9. (a) Write the construction and working of a Band-saw.
(b) What are the factors to be considered for selection of Hack-saw blades ? 5+5
10. Write short notes on any *two* of the following : $2 \times 5 = 10$
(a) Soldering
(b) Spot Welding
(c) Galvanising
(d) Embossing
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