

**DIPLOMA IN MECHANICAL ENGINEERING  
(DME)**

**Term-End Examination**

**June, 2013**

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

*Time : 2 hours*

*Maximum Marks : 70*

*Note : Answer any five questions.*

1. (a) How a grinding wheel is coded ? What is the advantage of codification of grinding wheel ? 7+7
- (b) Explain the different types of Grinding Processes.
2. (a) Write the common metal forming processes. Describe any two of them with neat diagram. 7+7
- (b) What are the various surface finishing processes ? Differentiate between polishing and buffing.
3. (a) What are the various welding defects ? Discuss their causes and remedies. 7+7
- (b) What is electro-forming ? What are the various applications of electro-forming ?

4. (a) Discuss the purpose of using electrodes in metal arc welding. How electrodes are classified ? 7+7
- (b) Explain the power source required for electric arc welding ? Write atleast 08 tools used in electric arc welding.
5. (a) What are the different methods of soldering ? Write the safety precautions to be taken while soldering operation. 7+7
- (b) Describe vertical band saw machine with the help of block diagram. Write the name of operations which can be performed on it.
6. (a) What are the materials used for making saw blade ? What do you understand by Tooth Spacing ? 7+7
- (b) What is the purpose of using flux in soldering ? What are the different types of fluxes used in soldering ?
7. (a) How the metal coating processes are classified ? Describe the process of Galvanizing. 7+7
- (b) Write the applications of sub-merged arc welding. Describe the process of submerged arc welding with the help of a diagram.