

Roll No.

Total Pages : 02

BT-4/M-20

34115

PRODUCTION TECHNOLOGY-I

ME-202-N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

Unit I

1. (a) Draw a neat sketch point cutting tool indicating its complete geometry. **6**
- (b) With the help of a neat sketch, explain the working of twist drill. **9**
2. (a) What are the common methods of breaking ? **5**
- (b) Explain two metal cutting theory. **10**

Unit II

3. (a) Explain the function of cutting fluid. **7**
- (b) Explain the main factors which influence the tool life. **8**

4. (a) Describe relation between cutting speed, rate of production and production cost. **8**
- (b) What do you mean by term 'Machinability Index' ? **7**

Unit III

5. (a) What are the common milling methods ? **9**
- (b) Discuss column and knee type of milling machine. **6**
6. (a) With the help of a neat sketch show the different angles of a drill and explain in detail. **10**
- (b) Explain the main parts of upright drilling machine. **5**

Unit IV

7. Write short notes on the following : **15**
- (i) Specification of grinding machines
- (ii) Micrometer caliper.
8. (a) Explain the working of Auto-collimator. **8**
- (b) Write down the factors which affect surface finish during machining. **7**