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.

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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 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**

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