Roll No. _____

END SEMESTER EXAMINATION
SEMESTER-V (New/Old Course)

COURSE CODE : ME503 | **DURATION : 3 (THREE)HRS**
COURSE TITLE : MACHINE TOOL -II | **MAXIMUM MARKS : 75**
SESSION : JULY-DEC '2021 | **PASS MARKS : 35 %**

NOTE:
1.All the questions are compulsory
2. Attempt any 5 (five) questions
3. Mark for each question is shown against it.
4. Assume suitable logical data wherever necessary.

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1. **(a)** With the help of neat sketch ,explain the construction parts of a vertical milling machine? **(8)**
(b) What are the different types of milling machines and explain them briefly ? **(7)**

2. **(a)** With the help of block diagram, describe the main constructional features of vertical boring machine? **(7)**
(b) What you mean by abrasive and what are the different types of abrasive ,explain them? **(5)**
(c) What are the different types of grinding machine? **(3)**

3. **(a)** Draw a neat sketch of a horizontal milling machine and describe its constructional parts? **(8)**
(b) How will you classify milling cutters? **(4)**
(c) What do you mean by hob cutter? **(3)**

4. **(a)** Write short notes on the following milling operations with neat sketch; **(5x3)**
a)Face milling b)Straddle milling
c)Form milling d)Slab milling e)Angular milling

5. **(a)** With a neat sketch write a short note on Gang milling? **(5)**
(b) Explain the pedestal grinder with the help of neat sketch? **(5)**
(c) Distinguish between a turret lathe and capstan lathe? **(5)**

6. **(a)** With the help of diagram, explain the constructional features of capstan lathe? **(5)**
(b) With the help of diagram, explain the constructional features of hobbing machine? **(8)**
(c) Write down the specification for milling machine ? **(2)**

7. **(a)** With the help of block diagram, describe the main constructional features of horizontal boring machine? **(7)**
(b) With neat sketch explain the constructional features of turret lathe ? **(5)**
(c) Write a short note on form cutting method? **(3)**

8. **(a)** Explain the construction of a plain cylinder grinder with the help of a neat diagram? **(7)**
(b) With the help of a neat diagram, explain the working of a centreless grinder? **(8)**

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