DAY - 16 SEAT NUMBER | | | | | | |

2020	III	11	1100	V – 204	(E)

MECHANICAL MAINTENANCE
PAPER - I (A-2)

Time : $2^1/_2$ Hours	2 Pages	Max. Marks : 40

Instructions : *(1) All questions are compulsory.*
(2) Figures to the right indicate full marks.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Use of drawing instruments, mathematical tables etc. are permitted.
(5) Assume suitable data, if necessary.

1. Answer the following : **(Any Four)** 4

Fill in the blanks :

(a) Dressing operation is done by _____.

(i) Dresser

(ii) Tap

(b) _____ rest moves with the tool and gives continuous support to the job.

(i) Steady

(ii) Follower

Match the pairs :

(c)	Cutting Angle of Twist drill	(i)	60°
(d)	Angle of Centre Punch	(ii)	118°
		(iii)	90°

State true or false ; and correct it; if false :

(e) The fuse is used to protect the appliances from excessive current.

(f) In planer tool reciprocates while work is stationary.

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2. Answer the following in about 8 to 10 lines each : **(Any Two)** 6

(a) Write work holding devices used on Drilling Machine. Explain any one with neat sketch.

(b) What are the various types of Milling Cutters ? Explain any one with neat sketch.

(c) Explain Knurling Operation with neat sketch.

3. Answer the following in about 8 to 10 lines : **(Any Two)** 6

(a) Differentiate between Shaper and Planer.

(b) Explain Bench Drilling Machine with neat sketch.

(c) Define loading, glazing and dressing of the grinding wheel.

4. Answer the following in about 5 to 6 lines each : **(Any Three)** 6

(a) What are the safety precautions to be taken while working on lathe machine ? https://www.maharashtrastudy.com

(b) What are different types of Grinding Machines ?

(c) Write the functions of Tailstock.

(d) What are the disadvantages of Breakdown Maintenance ?

(e) Why drilling is followed by Reaming ?

5. Answer the following in about 5 to 6 lines each : **(Any Three)** 6

(a) Differentiate between Drilling and Boring.

(b) State functions of Coolant.

(c) Explain Scrapping Operation.

(d) Write the factors to be considered while selecting a Grinding Wheel.

(e) Enlist operations performed on Shaper.

6. Attempt **any two** : 12

(a) What are the different methods of Taper Turning ? Explain any one with neat sketch.

(b) What are the different types of Surface Grinders ? Explain any one with neat sketch.

(c) Draw a neat labelled diagram of Slotting Machine. Explain any three major parts.

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