Printed Pages: 3

NME-503

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID: 2012254

Roll No.

B.TECH.

Regular Theory Examination (Odd Sem-V), 2016-17

MANUFACTURING SCIENCE & TECHNOLOGY-II

Max. Marks: 100

Time: 3 Hours

SECTION-A

Attempt all parts. All parts carry equal marks. Write

answer of each part in short. Name the two systems of designating the cutting (10×2=20)

Discuss the variables affecting tool life.

How the size of the boring machine is specified List the difference between shaper and planner.

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Mention four important factors that influence the selection of grinding wheel.

Define lapping.

Mention the applications of Friction Welding.

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What are different types of bonds used in Grinding

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Define Weldability

State the applications of AJM

SECTION-B

Note: Attempt any 5 questions from this section. (5×10=50)

Explain "Merchant force circle" along with assumptions machining with neat sketch Discuss the various types of chips produced during metal

12.

Explain in detail the ECM and EBM process with neat

- Also give the classification of lathe machines. Mention the specifications of lathe with a neat sketch.
- Explain the working mechanism of cylindrical and surface Explain up milling and down milling with a neat sketch grinding.
- 7. Define the terms:
- Limits

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Allowance

- Basic Size Tolerance
- Explain TIG and MIG welding process and enumerate its
- Write short notes on

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(3)

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SECTION-C

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Note: Attempt any 2 questions from this section (2×15=30)

Sketch and explain the working of shaper.

grinding wheel? Explain. What is meant by grit, grade and structure of

Write the various welding defects. Give the reasons

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Write a note on various brazing methods. and suggest the remedies.

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