

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY NAVI MUMBAI

QUESTION BANK

Unit Test-I

Semester: - IV

Program: - ME4K

Course: - Production Process (314340)

CHAPTER-1: FUNDAMENTALS OF CNC MACHINE (CO1)

2 MARKS

1. What is CNC?
2. List different elements of CNC machine?
3. How CNC machines are classified?
4. What are Indexable Inserts?

4 MARKS

1. Explain Absolute and Incremental co-ordinate system.
 2. With the help of diagram, Explain open loop and closed loop control system.
 3. Explain Automatic Pallet Changer.
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CHAPTER-2 GRINDING & SUPERFINISHING (CO2)

2 MARKS

1. Define Surface Finish with two significances in manufacturing.
2. What are Abrasives?
3. Explain principle of super finishing processes.
4. Explain the role of Grit size in the performance of grinding wheel.

4 MARKS

1. Discuss the importance of bond types and grade structure in grinding wheels.
 2. Why is dressing and truing necessary for grinding wheels?
 3. What are the features and applications of internal grinding machines?
 4. Explain the working principles of lapping and honing.
 5. Compare lapping, honing, buffing and polishing in terms of their applications and outcomes.
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2 MARKS

1. State different types of Gear Manufacturing methods.
2. State applications of Gear Shaping.
3. Define Gear Hobbing.

4 MARKS

1. Explain the working principle of gear broaching.
 2. Describe the equipment setup required for gear hobbing.
 3. What are the important cutting parameters in gear hobbing?
 4. What is the significance of gear finishing in high performance application?
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