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Total No. of Pages: 01

Total No. of Questions: 08

M.Tech. (CAD/CAM) (Sem.-3)
COMPUTER CTR. IN M/C TOOLS

Subject Code: ME-504 Paper ID: [E1037]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. Discuss the fundamental concept and need of numerical control in machine tools.
- 2. What is Adaptive control? Write its types, applications and benefits.
- 3. Explain the constructional details of Numerical Control machine tool and also discuss its functions.
- 4. Discuss the need and function of :
 - a) Feedback devices.
 - b) Counting devices.
- 5. Write the classification of control system. Discuss in detail the working, advantages and disadvantages of electro-mechanical control system.
- 6. Discuss in detail the work holding and setting up procedure of CNC machine.
- 7. What is computer assisted part programming? Discuss the post processor and auxiliary statements.
- 8. How the automatic NC program is generated from CAD model, explain with suitable example?

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