

# COMPUTER NUMERICAL CONTROL

## MULTIPLE CHOICE QUESTIONS

1. Which of the following components is considered the "brain" of a CNC machine?

- a) Spindle
- b) Control unit
- c) Tool changer
- d) Bed

Answer: b) Control unit

2. What is the primary function of the machine bed in a CNC machine tool?

- a) To rotate the workpiece
- b) To house the control system
- c) To provide a stable foundation for the machine components
- d) To change the tools automatically

Answer: c) To provide a stable foundation for the machine components

3. Which part of a CNC machine tool holds the cutting tool in place?

- a) Spindle
- b) Chuck
- c) Tool holder
- d) Tailstock

Answer: c) Tool holder

4. What is the role of the spindle in a CNC machine tool?

- a) To feed the cutting tool
- b) To rotate the cutting tool or workpiece
- c) To provide power to the control unit
- d) To monitor the machine's performance

Answer: b) To rotate the cutting tool or workpiece

5. In a CNC milling machine, what is the purpose of the table?

- a) To move the cutting tool
- b) To hold and move the workpiece

- c) To house the electronic components
- d) To measure the dimensions of the workpiece

Answer: b) To hold and move the workpiece

6. Which component is responsible for automatically changing the tools in a CNC machine?

- a) Tool magazine
- b) Tool holder
- c) Spindle
- d) Control panel

Answer: a) Tool magazine

7. What does the term "axis" refer to in the context of CNC machine tools?

- a) The power supply of the machine
- b) The direction of movement of the cutting tool or workpiece
- c) The rotational speed of the spindle
- d) The software used to program the machine

Answer: b) The direction of movement of the cutting tool or workpiece

8. What is the function of the linear guideways in a CNC machine tool?

- a) To control the spindle speed
- b) To guide the movement of the machine's axes
- c) To change the cutting tools
- d) To hold the workpiece in place

Answer: b) To guide the movement of the machine's axes

9. In CNC lathes, what component holds the workpiece securely during machining?

- a) Chuck
- b) Tailstock
- c) Bed
- d) Tool turret

Answer: a) Chuck

10. What is the role of the coolant system in a CNC machine tool?

- a) To lubricate the machine's moving parts
- b) To cool the cutting tool and workpiece
- c) To provide power to the machine
- d) To clean the workpiece after machining

Answer: b) To cool the cutting tool and workpiece

These questions cover the basic structure and components of CNC machine tools, focusing on their functions and roles within the machine.