Unit 7 - Week 05

Course outline

How does an NPTEL online course work?

Week 00

Week 01

Week 02

Week 03

Week 04

Week 05

- Lecture 19, CNC Part Programming (part 1 of 4), Dr. Janakarajan Ramkumar
- Lecture 20, CNC Part Programming (part 2 of 4), Dr. Janakarajan Ramkumar
- Lecture 21, CNC Part Programming (part 3 of 4), Dr. Janakarajan Ramkumar
- Lecture 22, CNC Part Programming (part 4 of 4), Dr. Janakarajan Ramkumar
- Quiz : Assignment 05
- Computer Integrated Manufacturing :Week 05 Feedback
- Solution: Assignment 05

Week 06

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Week 12

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Assignment 05

The due date for submitting this assignment has passed. **Due on 2020-03-04, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Control Loop Unit reads and decodes the part program and pass information to data processing unit. *1 point*

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers:
False

2) Simultaneous two axis control is primary needed for: *1 point*

- Point to point
- Continuous path
- Both continuous path and point to point
- None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
Continuous path

3) What is 'dry run' in CNC machining: *1 point*

- CNC machining without cooling fluent
- Checking a program quickly without actually cutting parts
- Machining the component without heating or temperature variation
- To virtually simulate the program in the software not in actual CNC machine

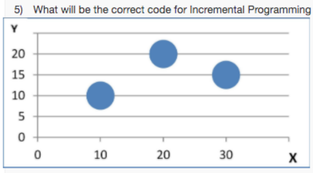
No, the answer is incorrect.
Score: 0
Accepted Answers:
Checking a program quickly without actually cutting parts

4) In the CNC part programming, which command code is unique and cannot be used to other block statement in the same program (Standard Notations)? *1 point*

- N__
- M__
- G__
- S__

No, the answer is incorrect.
Score: 0
Accepted Answers:
N__

5) What will be the correct code for Incremental Programming in the following part? *1 point*



- N008 G91 G01 X10 Y10
  N009 X20 Y20
  N010 X30 Y 15
- N008 G90 G01 X10 Y10
  N009 X10 Y10
  N010 X10 Y-5
- N008 G91 G01 X10 Y10
  N009 X10 Y10
  N010 X10 Y -5
- N008 G91 G01 X10 Y10
  N009 X20 Y20
  N010 X10 Y 5

No, the answer is incorrect.
Score: 0
Accepted Answers:
N008 G91 G01 X10 Y10
N009 X10 Y10
N010 X10 Y -5

6) In the CNC programming F, S & T are the standard notations used for _____, _____ & _____ respectively. *1 point*

- Function, Spindle & Tool selection
- Feed rate, Spindle Speed & Tool speed
- Feed rate, Spindle speed & Tool selection
- Function, Speed & Tool selection

No, the answer is incorrect.
Score: 0
Accepted Answers:
Feed rate, Spindle speed & Tool selection

7) Maximum speed is attained by the tool in rapid traverse operation, since during this time no machining is taking place. *1 point*

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers:
True

8) Automatically Programmed Tool is a low-level computer programming language. *1 point*

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers:
False

9) During the execution of a CNC part program block N020 G02 X45.0 Y25.0 R5.0 the type of tool motion will be _____. *1 point*

- circular interpolation – clockwise
- circular interpolation – counterclockwise
- linear interpolation
- rapid feed

No, the answer is incorrect.
Score: 0
Accepted Answers:
circular interpolation – clockwise

10) Which of the following code is used in thread cutting in turning? *1 point*

- G32
- G89
- G20
- G74

No, the answer is incorrect.
Score: 0
Accepted Answers:
G32