

14. The repeatability of NC machine depends on
 a) Control loop errors b) Mechanical errors L1 CO3 PO3
 c) Electrical errors d) None of the mentioned
15. In a point to point type of NC system
 a) Control of position and velocity of the tool is essential
 b) Control of only Position of the tool is sufficient L1 CO3 PO2
 c) Control of only velocity of the tool is sufficient
 d) Neither Position nor velocity need to be controlled
16. The tool of an NC Machine has to move along a circular arc from (5, 5) to (10, 10) while performing an operation. The Centre of the arc is at (10, 5) which one of the following NC tool path commands performs the above mentioned operation?
 a) NO10 GO2 X10 X5 Y5R5 L1 CO4 PO2
 b) NO10 GO3 X10 Y10 X5 Y5 R5
 c) NO10 GO2 X5 Y5 X10 Y10 R5
17. In a CAD Package mirror image of a 2D point p(5 , 10) is to be obtained about a line which through the origin and makes an angle of 45° Counter clockwise with the X-axis, the coordinates of the transformed point will be
 a) (7.5, 5) b) (10, 5) c) (7.5, -5) d) (10, -5) L1,2 CO4 PO1
18. In a 2-D CAD package, clockwise circular arc of radius 5, Specified from P1(15, 10) to P2(10, 15) will have its Centre at
 a) (10, 10) b) (15, 10) c) (15, 15) d) (10, 15) L1 CO4 PO1
19. The number of lines required to represent a cube in a wire frame model is
 a) 8 b) 6 c) 12 d) 16 L1 CO4 PO1
20. CNC drilling machine is considered to be a
 a) Point to Point controlled machine
 b) Straight path controlled machine L1 CO4 PO3
 c) Continuous Path controlled machine
 d) Screw Controlled machine
21. The last motion in CNC machine tool is on amount of
 a) backlash in gearing
 b) Wind-up of drive shafts L1 CO5 PO2
 c) Deflection of machine tool members
 d) All the above
22. CNC machine are not normally operated. They are controlled by means of a
 a) Program b) Operator c) Cam d) Plug board System L1 CO5 PO1
23. In a CNC program block NO02 GO2 G91 X40 Z40....., GO2 And G91 refer to
 a) Circular interpolation in Counterclockwise direction and incremental dimension
 b) Circular interpolation in Counterclockwise direction and absolute dimension L1 CO5 PO1
 c) Circular interpolation in clockwise direction and absolute dimension
24. The following is not a graphics started
 a) GKS b) IGBS c) UNIX d) PHIGS L1 CO5 PO1
25. The number of tangent required to described cubic splines is
 a) 2 b) 1 c) 3 d) 4 L1 CO5 PO1