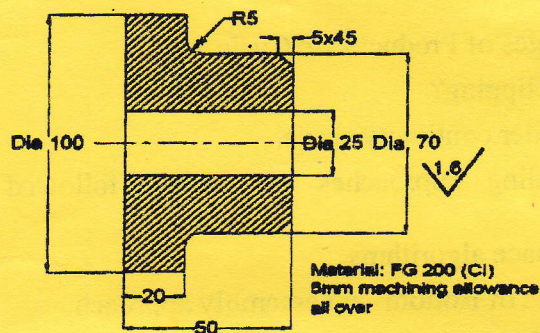






- b) Explain briefly Assembly modeling of parts. 13,K2,CO3
14. a) Explain about Graphics Kernel System (GKS). 13,K2,CO4
- OR**
- b) Describe briefly the architecture of the following data exchange formats.
- (i) IGES 7,K2,CO4
- (ii) STEP 6,K2,CO4
15. a) Explain the working of a NC machine tool with the help of a diagram. Also state advantage and limitations of NC machines. 13,K2,CO5
- OR**
- b) Write a CNC program for machining the component shown in Figure. Assume that the work piece is having a Diameter of 108 mm x 60 mm. 13,K3,CO5



**PART - C (1 × 15 = 15 Marks)**

16. a) With a suitable example, analysis the benefits of the CAD/CAM system after implementation of it over the conventional system which had been followed for long time in a cutting tool manufacturing company. Assume suitable data wherever required. 15,K3,CO6
- OR**
- b) Derive the equation for Bezier Curve. Find the equation of a Bezier curve which is defined by the four points as P0 (2, 2, 0), P1 (2, 3, 0), P2 (3, 3, 0) and also find the points on the curve for  $u = 0, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1$ . 15,K3,CO6