

|  | (c) Part surface |  |  |
| :---: | :---: | :---: | :---: |
| SECTION-C |  |  |  |
| Q 9 | For the plate shown in figure below, write an APT program for end milling of its edges. Thickness of the plate is 20 mm . | 20 | CO5 |
| Q 10 | Analyze the truss shown in the figure (i.e. to find displacement at joints, stresses in the members and reaction forces.) <br> OR <br> A stepped round bar is fixed at one end and a tensile force of 1000 N is applied at the other end as shown in fig below. Take elastic modulus, $\mathrm{E}=2 \times 10^{5} \mathrm{MPa}$. Find the global stiffness matrix, displacement at nodes and reaction. | 20 | CO3 |

