|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Answer all the following questions:** | | | |  |
|  |  | | | |  |
| 1. | Draw the following diagram using Cohen-Sutherland Line Clipping algorithm. At first show the full diagram and then clip the diagram and show only the portion in rectangular screen as following. | | | | 10 |
|  |  | | | |  |
|  |  | | | |  |
| 2. | Draw the following diagrams using DDA line, Circle and Ellipse draw algorithm as required. | | | | 20 |
|  |  | | | |  |
|  | D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\cg19.png | D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\cg11.png | D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\cg8.png | D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\ellipse+circle.png |  |
|  | 2.5 | 2.5 | 5 | 10 |  |
|  |  | | | |  |
| 3. | Draw the following diagram using translation. | | | |  |
|  | D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\Transformation\t3.png D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\Transformation\t5.png D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\Transformation\t1.png D:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\Transformation\t9.pngD:\Class Lecture of MHK\Lecture\Summer 2018\CSE-410\Transformation\t2.png | | | | 5 |
|  |  | | | |  |
| 4. | Draw a triangle where A (250,30), B (150,140) and C (350,140) and then scaled the triangle using Sx=1.5 and Sy=0.75. | | | | 2.5 |
|  |  | | | |  |
| 5. | Draw a triangle where A (350,30), B (290,130) and C (510,130) and then rotate the triangle using angle, Ѳ=750. | | | | 2.5 |