

Vavuniya Campus of the University of Jaffna

Second Examination in Information Communication Technology - 2017
(Technology Stream)

Second Semester - March/April 2019

TICT2253-Computer Graphics (Practical)
Answer All Questions

Time Allowed: Two hours

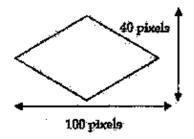
Instructions

- Save your files in the folder named with your Index Number (TS10XX).
- · Save a screenshot of your final output in the above folder.
- You may refer to the output image of Figure 7 in the folder named TICT2253 on the desktop.
- 1. (a) Write a Java program to implement the DDA line drawing algorithm.

[10%]

(b) Create Object 1 as shown in Figure 1 by using the program written in part(a) and obtain Object 2 as shown in Figure 2 using any appropriate 2-D transformation technique applying on Object 1.

[This question is continued on the next page]



20 pixels

Figure 1: Object 1

Figure 2: Object 2

[20%]

(c) Create the Object 3 as shown in Figure 3 by applying any suitable 2-D transformation on Object 2, constructed in part (b).



Figure 3: Object 3

[20%]

(d) Obtain an object as shown in Figure 4 and construct the composite object as shown in Figure 5 by applying any appropriate transformation on the Object 4.

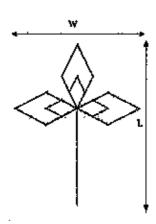


Figure 4: Object 4

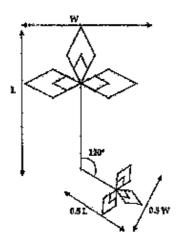


Figure 5: Object 5

[30%]

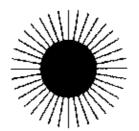
(e) Create the Object 6 as shown in Figure 6 by using the methods available in java.awt.Graphics class and 2-D transformations techniques.



Figure 6: Object 6

[20%]

Note:- The final graphics output must be similar to Figure 7. You may refer to the image of Figure 7 in the folder named TICT2253 on desktop.



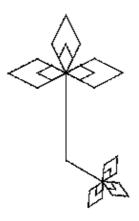


Figure 7: Final output