AS–1521

B.C.A. (Part—III) Semester—V Examination
COMPUTER GRAPHICS
Paper—5 ST 4

Time : Three Hours]   [Maximum Marks : 60

1. (a) Explain the advantages and disadvantages of computer graphics.   6

    (b) Explain technologies related to computer graphics.   6

                                 OR

2. (a) What is computer graphics ? Explain its components.   6

    (b) Explain how computer graphics play an important role in various Applications.   6

3. (a) Explain scaling transformation with suitable example.   6

    (b) Explain Raster Scan System with suitable diagram.   6

                                 OR

4. (a) Explain Rotation transformation with suitable example.   6

    (b) What is Co-Ordinate system ? Explain homogenous, Co-ordinate system.   6

5. (a) Explain circle drawing algorithm.   6

    (b) Explain Parallel projection with its application.   6

                                 OR

6. (a) Explain mid-Point subdivision algorithm.   6

    (b) Write and explain properties of Bazier curve.   6

7. (a) Explain Hardware and Software tools of Animation.   6

    (b) Explain the following :—

         (i)   Morphing.

         (ii) Tweening.   6

                                 OR

8. (a) Explain any six applications of animation. 6

   (b) What is Animation ? Explain the types of Animations. 6

9. (a) Write a program in graphics for circle drawing using C language. 6

   (b) Differentiate between 2D Transformation and 3 D Transformation. 6

OR

10. (a) Write a program in graphics for line drawing using C language. 6

    (b) Explain various types of transformation in detail. 6