Reg. No. : | | | | | | | | | | |

Question Paper Code: 55803

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fifth Semester

Computer Science and Engineering

15UIT503 -GRAPHICS AND MULTIMEDIA

(Common to Information Technology)

(Regulation 2015)

Duration: One hour Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The transformation that produces a parallel mirror image of an object are called CO1-R

   (a) Rotation (b) Reflection

   (c) Translation (d) Scaling

2. The transformation in which an object is moved in a minimum distance path from one position to another is called CO1-R

   (a) Rotation (b) Replacement

   (c) Translation (d) Scaling

3. ……. devices present two views of a scene CO2-R

   (a) Cut view (b) Rendering

   (c) Stereoscopic (d) Raster

4. Depth buffer method is also called as_____ CO2-R

   (a) A buffer (b) Z buffer

   (c) Scan line (d) None of the above

5. Fractals are created by CO3-R

   (a) Recursive (b) Function (c) Iteration (d) Module

6. Two colour sources combine to produce white light, they are called_____ CO3-R

(a) Complementary Colors (b) Additive Colors

(c) Subtractive colors (d) Primary Colors

7. Streaming stored audio/video, files are compressed and stored on a CO4-R

(a) IP (b) Server (c) Domain (d) Internet

8. Moving Picture Experts Group (MPEG) is used to compress CO4-R

(a) Frames. (b) Images (c) Audio (d) Video

9. Real-time traffic needs support of CO5-R

(a) Multicasting B. C. D. (b) Translation

(c) integration (d) security

10. ----------can occur when a WORM disk is nearly full. CO5-R

(a) Media underflow (b) Packaging

(c) Revision (d) Media overflow

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11.	Use and explain the DDA line algorithm to digitize the line with end points (0,0) & (4,6).	CO1-Ana	(8)
12.	Discuss on area subdivision method and scan line method in hidden surface removal method	CO2-Ana	(8)
13.	Draw and explain various color models.	CO3-U	(8)
14.	Apply the JPEG compression technique for an image..	CO4-App	(8)
15.	Develop Multimedia Applications for virtual reality	CO5-App	(8)