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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(CSE) (2012 to 2017) (Sem.-5)

COMPUTER GRAPHICS

Subject Code : BTCS-504

M.Code : 70537

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. SECTION-B contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. SECTION-C contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A**Answer briefly :**

1. Define aspect ratio.
2. Explain Raster Scan System.
3. Write **any two** Graphic Tools.
4. What is the role of Scaling?
5. What is point clipping?
6. Discuss boundary fill algorithm.
7. What is scan line algorithm?
8. Define composite Transformations.
9. Define Gouraud shading.
10. Write a short note on Z buffer algorithm.

SECTION-B

11. Describe computer graphics and its applications in animation.
12. Differentiate parallel and perspective projections and derive their projection matrices.
13. Write a short note on Midpoint Ellipse Algorithm.
14. With suitable examples explain all 3D transformations.
15. What are the advantages of Painter Algorithm in Computer Graphics?

SECTION-C

16. Give the syntax of drawing a line in computer graphics using various algorithms.
17. Discuss hidden edge or visible edge techniques.
18. Define following with example :
 - a) Rendering
 - b) Antialiasing

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.