

Reg. No. :

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**Z 3540**

M.C.A. DEGREE EXAMINATION, MAY/JUNE 2008.

Third Semester

MC 1704 — COMPUTER GRAPHICS AND MULTIMEDIA SYSTEMS

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is interlacing?
2. What is exterior clipping?
3. What is meant by differential scaling?
4. Name the different methods used for splitting a concave polygon?
5. What is the use of color look up tables?
6. What is oblique projection?
7. What are the QOS parameters?
8. What is called authoring tool?
9. Mention the various hypermedia document models.
10. Differentiate between database and multimedia database.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss DDA algorithm for line drawing with an example. (10)  
(ii) Describe line clipping using Nonrectangular clip window. (6)  
Or  
(b) (i) Write notes on : (10)  
(1) joysticks  
(2) digitizers.  
(ii) Explain about mid point circle algorithm. (6)
12. (a) (i) Discuss the spline specifications in detail. (10)  
(ii) Describe about polygon tables. (6)  
Or  
(b) Explain the various geometric transformations in detail. (16)
13. (a) Discuss about 3-D display methods. (16)  
Or  
(b) (i) Describe the design of Animation sequences. (10)  
(ii) Mention the ways of motion specifications and explain. (6)
14. (a) (i) Discuss the main properties of a multimedia system. (10)  
(ii) Discuss how compression is useful in multimedia applications. (6)  
Or  
(b) (i) Discuss the requirements to be satisfied for event- loop based program. (10)  
(ii) Give the limitations of the CD-ROM technology. (6)
15. (a) Give a detailed account on collaborative computing. (16)  
Or  
(b) Discuss in detail the presentation requirements in synchronization. (16)