

TELCMPN1 VI (OTR)  
Computer Graphics

19/12/12

85 : 2nd half, 12-shilpa(e)

Con. 10678-12.

KR-8784

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Question No. 1 is **compulsory**  
(2) Attempt any **four** out of remaining **six** questions.  
(3) Assume **suitable** data wherever **necessary** and state it.

1. (a) Write a short-note on different types of input devices. 10  
(b) Develop a DDA Line drawing Algorithm. 10
2. (a) Explain Z - buffer method in detail. 10  
(b) Write a note on plasma panel display. 10
3. (a) Explain raster scan and random scan devices. 10  
(b) Explain Boundary - Fill method. 10
4. (a) Explain window to view port coordinate transformation. 10  
(b) Develop midpoint circle Algorithm. 10
5. (a) Explain Bezier curves and its properties. 10  
(b) Explain Phong Shading method. 10
6. (a) What are different types of parallel projections ? Derive the transformation matrix for producing any parallel projection onto the Y - Plane. 10  
(b) Explain Back-Face removal method. 10
7. Write a short note on any **two** :- 20
  - (a) Half-toning and Dithering
  - (b) Octree method
  - (c) Cohen - Stherland line clipping.

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Con. 10516-12.

(3 Hours)

KR-7656

[Total Marks : 100

N.B. : (1) Question No. 1 is compulsory.

(2) Solve any **four** questions from Question No. 2 to Question No. 7.(3) Write answers with neat sketches and examples wherever **necessary**.

1. (a) Explain HTML Tags for following – 10
  - (i) Header
  - (ii) Lists
  - (iii) frames
  - (iv) forms
  - (v) Tables
- (b) Differentiate between – 10
  - (i) GET and POST
  - (ii) HTML and XML
2. (a) Write a java script for following – 10  
Create a form to insert marks of the student for 5 subjects, where maximum marks are 100 for each subject, Java Script will calculate the total marks and percentage marks, use suitable form validation in this applications.
- (b) Explain all methods of HTTP protocol. 10
3. (a) What is cryptography ? Explain. 10
- (b) What are various web site design issues. 10
4. (a) What is ASP ? Explain ASP objects in brief. 10
- (b) Explain E-Commerce Architecture in detail. 10
5. (a) Write CSS for – 10
  - (i) Background colour
  - (ii) Font style and font colour
  - (iii) Table Border
  - (iv) Image size
- (b) What is firewall ? Explain different types of firewall. 10
6. (a) Write HTML code to explain Radio Buttons, Check Box, Text area and Dropdown Lists. 10
- (b) What are cookies ? Explain. 10
7. Write short note on following (any **four**) :- 20
  - (a) SET
  - (b) Internet Banking
  - (c) Java Servlet
  - (d) URL
  - (e) FTP
  - (f) DNS.

TE (COMPAN) VI (OTR) 10/12/12  
O.S. with UNIX

AGJ-2nd half (i)-12-20

Con. 10597-12.

(3 Hours)

KR-6426

[Total Marks : 100

**N.B.:** (1) Question No.1 is compulsory.

(2) Solve any **four** questions out of the remaining six questions.

1. (a) Explain Virtual Memory in detail. (10M)  
(b) What is the difference between process and program. Discuss PCB in detail. (10M)
  2. (a) Explain OS as a resource manager? List various resources. (10M)  
(b) Explain in detail UNIX SVR4 process state transition diagram. (10M)
  3. (a) Differentiate between: (10M)
    - i. Processes and Threads.
    - ii. Layered and Monolithic Structures of OS.(b) What is disk scheduling. Explain various disk scheduling algorithms. (10M)
  4. (a) Explain the non-preemptive and preemptive algorithms. (10M)  
(b) Explain paging in detail. Describe how logical address is converted into physical address. (10M)
  5. (a) Define deadlock. Explain the methods of handling deadlocks. (10M)  
(b) Explain File directories in detail. (10M)
  6. (a) What is NTFS? How Windows 2000 uses NTFS? (10M)  
(b) Explain Semaphores in detail. (10M)
  7. (a) Discuss the various system calls. (10M)  
(b) Explain RAID with different levels. (10M)
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