

**MODEL PAPER II**  
**PAPER CG (311)**  
**(PART-III)**

**Time Duration: 3 hrs**

**M.M. 50**

**OBJECTIVE PART-I**

**The question paper contains 40 multiple choice questions with four and five choices and student will have to pick the correct one (each carrying ½ marks).**

- Q1. MIDI is a:  
 (a) Software (b) communication standard (c) musical instrument (d) none of these
- Q2. Hypermedia: (a) Is an independent media like graphics, text ect. (b) Provides links between two media  
 (c) Allow two media to be played together (d) none of the above
- Q3. Audio file format in Microsoft is:  
 (a) .MID (b) .VOC (c) .AV (d) .WAV
- Q4. An image scanner can be used for storing:  
 (a) Text material (b) Engineering Drawings (c) Pictures (d) All of the above
- Q5. Digitized sound is:  
 (a) Digital sounds (b) sampled sound (c) unassembled (d) none of these
- Q6. What is the aspect ratio of a 12 x 16 in display?  
 (a) 3 : 4 (b) 12 : 14 (c) 6 : 8 (d) none of the above
- Q7. Which one of the following encoding formats of a digital image is add-one-out:  
 (a) BMP (b) RLE (c) JPEG (d) TIFF
- Q8. Sound level is measured in: (a) db (b) KB (c) KBPS (d) none of these
- Q9. Which of the following is /are not authoring tools?  
 (a) Card & page based (b) icon based (c) objected oriented tools (d) none of these
- Q10. Which of the following is not a multimedia document?  
 (a) Alpha.bmp (b) soya.Doc (c) jj23.jpg (d) class.exe
- Q11. In multimedia application digital audio is stored in the format  
 (a) GIF (b) WAV (c) TIFF (d) BMP
- Q12. A display of volume model that shows all of its called a:  
 (a) 3-D model (b) surface model (c) wire-frame (d) soiled model
- Q13. Which of the following is not directly linked with multimedia?  
 (a) Advertising (b) games development (c) CBT(computer based teaching)(d) accounting
- Q14. Which of the following is not a voice file?  
 (a) acc (b) .nid (c) .voc (d) .riff
- Q15. A multimedia PC gets booted through its:  
 (a) ROM (b) RAM (c) cache (d) CD-ROM
- Q16. Which of the following attributes is important for presenting text in a multimedia document?  
 (a) font (b) character format (c) color (d) all of the above
- Q17 which of the following is not an animation file format?  
 (a) .dir (b) .xls (c) .max (d) .der
- Q18. AVI works only on:  
 (a) Mac, Win (b) Sun (c) Win (d) all of the above
- Q19. Which of the following is not an input device for graphics displays?  
 (a) Trackball (b) Touch screen (c) Monitors (d) Graphics Tablet
- Q20. The format for storing conversation between two persons in a multimedia system is :

- (a) MIDI (b) WAV (c) JPEG (d) BCD
- Q21. For user interaction, which one is not an event driven device?  
 (a) Light pen (b) Joystick (c) Keyboard (d) switches
- Q22. Point size is a term used in:  
 (a) Lettering (b) Typography (c) Animation (d) Drafting
- Q23. Dragging in computer graphics can be achieved through:  
 (a) Scaling (b) mirror reflection (c) shearing (d) translation
- Q24. Panning on the screen can be achieved by:  
 (a) Translation and back scaling (b) only translation  
 (c) Scaling, Translation and back scaling (d) none of the above
- Q25. 45 degrees rotation about Y-axis will move a vector along x-axis to:  
 (a) XZ plane (b) XY plane (c) YZ plane (d) Z axis
- Q26. Which of the following are transformations?  
 (a) Translation (b) rotation (c) scaling (d) all of the above
- Q27. The viewing transformation is formed by.....  
 (a) Translation (b) Translation and scaling (c) Translation, Scaling and translation (d) rotation
- Q28. The floating Horizon technique is used for:  
 (a) Solid area generation (b) hidden surface removal (c) polygon clipping (d) zooming
- Q29. Graphics software includes:  
 (A) PHIGS (B) GKS (C) BOTH (a) & (b) (D) None of these
- Q30. The uniform scaling is:  
 (A)  $s_x=s_y$  (B)  $s_x=1$  &  $s_y=1$  (C) A and B (D) None of these
- Q31. How many bits per pixel are generally required for true color system.  
 (A) 32 bits (B) 24 bits (C) 16 bits (D) 8 bits
- Q32. Flat panel displays have one of the following advantages.  
 (A) Reduced weight (B) reduced volume (C) better display (D) All the above
- Q33. Lookup table contains  
 (A) 1000 entries (B) 255 entries (C) 256 entries (D) None
- Q34. An image scanner can be used for storing.  
 (A) Text material (B) Engineering drawing (C) pictures (D) All the above
- Q35. Which of the following isn't a color model?  
 (A) CTE (B) xyz (C) CMYKW (D) RGB.
- Q36. Data mining consists of  
 (A) Extraction of data (B) comparison of data base (C) Arranging the data (D) All the above
- Q37. Shadow mask methods are used in  
 (A) Roster scan monitor (B) Random scan monitor (C) Both A & B (D) None of these
- Q38. It a line is drawn by using DDA, brightness will be uniform only in case of.  
 (A) Horizontal lines (B) vertical lines (C) Inclined line- with so lope (D) All the above
- Q39. Image aspect Ratio in window is:  
 (A) 4:3 (B) 1:1 (C) 3:4 (D) none of these
- Q40. More efficient method for scan converting a line is:  
 (A) DDA (B) Direct use of a line equation (C) Bresenham's (D) None

## **DESCRIPTIVE PART II**

**Attempt any four questions out of six. Each Question carries 7.5 marks.**

- Q1. Describe the generalized Bresenham's line Drawing algorithm in detail. Give example.
- Q2. (a) Discuss the mid-point ellipse drawing algorithm in detail.  
 (b) How is an orthographic projection different from axonometric projection?
- Q3. (a). Distinguish between windowport and viewport.  
 (b). Discuss the merits and demerits of various clipping algorithm.
- Q4. (a). How can a digital image be captured? List out four file formats to store digital image.  
 (b). Discuss the HSV color model.

- Q5. (a). Define 'Flickering'. What is its solution? (b). Define 'Bit Depth'.  
(b). Delineate the various application areas of Computer Graphics.
- Q6. Write short notes on the following : (a). Shadow mask (b). Image Processing.