

Bachelor in Information Technology (BIT)

Term-End Examination

December, 2006

CSM-01 : COMPUTER APPLICATIONS IN ART AND DESIGN

Time : 2 Hours

Maximum Marks : 60

Note : *All questions from Section A are compulsory. Answer any two questions from Section B. All objective type questions carry one mark each.*

SECTION A

1. Bitmaps are also known as 1
 - (a) Vector graphics
 - (b) Binary file
 - (c) Raster graphics
 - (d) JPEG files

2. For higher resolution, _____ storage space is required. 1
 - (a) much more
 - (b) very less
 - (c) marginally less
 - (d) None of the above

3. _____ stylus is attached to the tablet with a cord. 1
 - (a) Wacom
 - (b) CalComp
 - (c) Digitizer
 - (d) AceCat

4. The device which allows the users to directly activate data by touching the screen is 1
 - (a) Mouse
 - (b) Stylus
 - (c) Sonic digitizer
 - (d) Touch screen

5. Using _____, you can define an area within an image and then move the area to a new location, stretching the surrounding part of the image with it. 1
- (a) Offset
 - (b) Smear
 - (c) Spherize
 - (d) None of the above
6. CLUT stands for 1
- (a) Colour Look-up Tables
 - (b) Clear Look-up Tables
 - (c) Colour Look-up Templates
 - (d) Clear Look-up Templates
7. _____ detects interruption in a matrix of light beams. 1
- (a) Touch sensitive device
 - (b) Sonic digitizer
 - (c) Light-detector digitizer
 - (d) Magnetic-field sensor
8. The graphics tablet is a _____, flat _____ which takes input from a pen. 1
- (a) pressure sensitive, mechanical device
 - (b) pressure sensitive, electronic device
 - (c) not a pressure sensitive, electronic device
 - (d) not a pressure sensitive, mechanical device
9. The RGB value is to be _____, in order to reduce the brightness. 1
- (a) reduced
 - (b) kept constant
 - (c) increased
 - (d) None of the above

10. _____ digitize images by translating them into bit-maps. 1
- (a) Printers
 - (b) Digital cameras
 - (c) Mobile phones with camera
 - (d) Optical scanners
11. State whether True or False : 5×1=5
- (a) Vector Graphics are built up from primitives, basic drawing instructions such as line, rectangle, ellipse etc. and later on grouped together to form objects.
 - (b) Bitmaps occupy very less amount of storage when compared to JPEG format.
 - (c) Bitmaps degrade when they are resized.
 - (d) “CalComp” provides the widest tilt sensitivity.
 - (e) When transmitting or processing electrical signals, any undesirable change to the signal due to spurious effect in the circuit or transmission path is called mirror effect.
12. Mention any *two* applications of the following : 8
- (a) Vector graphics
 - (b) Bitmapped graphics
 - (c) Graphics tablet
 - (d) Pressure sensitive stylus
13. Explain briefly the following along with an application for each : 7
- (a) Touch screens
 - (b) Window media player
 - (c) Light-detector digitizers
 - (d) Bar-code reader

SECTION B

Answer any two questions from this section.

14. (a) Why is an image manipulation required ? List what are the tools/options available in (with respect to) a package along with their purpose respectively. 7
- (b) What is the use of palettes ? List the different layers that are available in palettes. Also, discuss the pros and cons of image resolution. 8

- 15.** (a) Explain the purpose and working principles of the following : 7
- (i) Digital Camera
 - (ii) Scanner
- (b) Explain the features of MS-PAINT. 8
- 16.** Discuss the features for the following : 15
- (i) Formatting tools of any word processing package.
 - (ii) Animation, layout design and editing aspects of any presentation package.