



AF-3113

BCA (Part - II)
Term End Examination, 2017-18

Paper - VII

Computer Graphics and Multimedia

Time : Three Hours] [*Maximum Marks* : 100

[*Minimum Pass Marks* : 33

Note : Answer from **both** the Sections as directed.
The figures in the right-hand margin indicate marks.

Section - A

Answer the following short answer type questions : $2\frac{1}{2} \times 10$

1. (a) What is the difference between raster and random scan system ?
- (b) What is Clipping ?
- (c) Describe projection in short.
- (d) Write some features of Adobe Photoshop.

(2)

- (e) Write the steps for filling and modifying outlines in CorelDraw.
- (f) What is frame buffer ?
- (g) Describe in short homogeneous coordinate.
- (h) Describe concatenation with suitable example.
- (i) What is the use of clone stamp tool in Adobe Photoshop ?
- (j) Describe how to import and edit OCR text.

Section - B

Answer any **one** part from each question : 15×5

- 2. (a) Describe any line drawing algorithm with suitable example.
(b) Describe the concept of circle generation algorithm.
- 3. (a) Explain 2D geometric transformation.
(b) Write any polygon clipping algorithm and describe with suitable examples.
- 4. (a) Explain translation, rotation and scaling in 3D geometric transformation with homogeneous coordinate.
(b) Describe the different types of parallel projection.

(3)

5. (a) What is Multimedia ? What are the advantages of multimedia ? Describe the means and panels in Adobe Photoshop.
- (b) Write short notes on the following :
- (i) Linking and deleting layers in Photoshop
 - (ii) Creating special effects in Photoshop
 - (iii) Adjusting canvas size and rotation in Photoshop
6. (a) Describe command bars and tools in CorelDraw.
- (b) Write short notes on the following :
- (i) Creating Master layer in CorelDraw
 - (ii) Interactive tools in CorelDraw
 - (iii) Envelope tools in CorelDraw
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