AE-1317

B.C.A. New Course (Part - II) Term End Examination, 2016-17

BCAYT - 205

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 are the applications of Computer Graphics?
 - (b) Define Computer Graphics.
 - (c) What is Multimedia?
 - (d) Define Cathode Ray Tube (CRT).
 - (e) Define Viewing.

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(Turn Over)

(2)

- (f) Explain Bezier Curve.
- (g) What is Adobe Photoshop?
- (h) How does red eye tool works?
- (i) Define Coreldraw.
- (j) Explain dipart in CorelDraw.

Section - B

Answer any **one** part from each questions:

 15×5

- **2.** (a) Explain any one line drawing algorithm with suitable example.
 - (b) Explain flood fill algorithm with the help of example.
- **3.** (a) Explain the following:
 - (i) Basic 2D geometric transformations
 - (ii) Homogeneous co-ordinates
 - (b) Explain the various polygon clipping algorithm.
- **4.** (a) What is Parallel Projection? Differentiate parallel projection from perspective projection.
 - (b) Explain all 3D geometric transformations with suitable examples.
- **5.** (a) What are the basic tools available in Photoshop? Explain in detail.

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(Continued)

(3)

- (b) Explain the following in Photoshop:
 - (i) Working with multiple images
 - (ii) Creating straight and curved paths
- **6.** (a) Explain drawing and editing curves in CorelDraw. Also explain drop shadows.
 - (b) Explain the following in CorelDraw:
 - (i) Templates
 - (ii) Creating a Master layer
 - (iii) Power clip feature

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