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(Printed Pages 4)

Roll No. _____

19/1563

B.C.A. (Fourth Semester)

Examination, 2019

First Paper

(Computer Graphics & Multimedia Application)

Time : Three Hours

Maximum Marks : 75

Note: Attempt any **five** questions. **All** questions carry equal marks.

Note : The answers to short questions should not exceed 200 words and the answers to long questions should not exceed 500 words.

1. (a) Write the difference between graphical interaction and CUI. 5
- (b) Explain the need of computer graphics in brief. 5

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- (c) How pixels and resolution can increase or decrease the quality of image? Explain. 5
2. (a) Write the difference between raster-scan display and random-scan display. 7
- (b) What is video controller? Explain about input devices used for operator interaction. <http://www.mgkvponline.com> 8
3. (a) What is meant by 3D effect? How is it achieved in the world of computer graphics? 8
- (b) Write and explain about the Cohen-Southarland line clipping algorithm. 7
4. (a) Explain the use of mid point subdivision algorithm with an example. 7

- (b) Explain the difference between LCD display and CRT display in brief. 8
- 5 (a) What is transformation? How it is helpful in computer graphics. 8
- (b) Explain about the window-to-viewport transformation in brief. 7
6. (a) Explain the representation techniques of curves and surfaces in computer graphics. 8
- (b) Explain about boundary representation for solid modeling. 7
7. (a) Write the difference between a video and an animation, in brief. 7
- (b) What do you mean by multimedia highway? Explain the use of it in computer graphics. 8
8. Write Cyrus-Beck algorithm and explain it by taking an example. 15

9. Write and briefly explain about the different stages of multimedia project, required for creating quality multimedia project. 15