Reg. No. : ....

Name : ....

Fifth Semester B.C.A. Degree Examination, October 2015
Career Related FDP Under CBCSS
Group 2(b)
Core Course CP 1542 – COMPUTER GRAPHICS AND MULTIMEDIA
(2013 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A
(Very Short Answer Type)

One word to maximum of **one** sentence. Answer **all** questions.　　　**(10×1=10 Marks)**

1. What is ppi ?

2. What do you mean by screen resolution ?

3. What is PNG ?

4. What is an image zoom ?

5. Expand NTSC.

6. What do you mean by image processing ?

7. What is a noise ?

8. What is an audio filter ?

9. What is a DVD ?

10. What is the application of z-buffer algorithm ?

SECTION – B
(Short Answer)

Not to exceed **one** paragraph, answer **any eight** questions. **Each** question carries **two** marks.   **(8×2=16 Marks)**

11. What do you mean by 8-bit Color image ?

12. Explain TIFF format.

13. What do you mean by occlusion ?

14. What do you mean by lossy compression ?

15. What do you mean by frame rate ?

16. What do you mean by edge detection ?

17. What are the advantages of digitized speech ?

18. What are the advantages of MIDI ?

19. What are analog video artefacts ?

20. What is CYMK color model ?

21. What is morphing ?

22. What is antialiasing ?

SECTION – C
(Short Essay)

Not to exceed **120** words, answer **any six** questions. **Each** question carries **four** marks.   **(6×4=24 Marks)**

23. Briefly explain the application of multimedia in health.

24. Write short notes on 2D composite transformations.

25. Write short notes on illumination techniques.

26. Write short notes on graphic input devices.

27. Explain the advantages and disadvantages of Z-buffer.

28. Write short notes on b-splines.

29. Write short notes on flood fill algorithm.

30. Explain homogeneous co-ordinate system with an example.

31. Write short notes on video equipments.

SECTION – D
(Long Essay)

Answer **any two** questions. **Each** question carries **15** marks.   **(2×15=30 Marks)**

32. Explain in detail the various projections in 3D.

33. Briefly explain Cohen Sutherland line clipping algorithm with example.

34. Explain the various color video formats.

35. Explain in detail various file formats used in multimedia.