

**SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2017**

## Multimedia

## SDC 2MM 05—MULTIMEDIA TOOLS AND TECHNIQUES

Time : Three Hours

Maximum : 80 Marks

**Part A***Answer the following in a word/sentence.**1 mark each.*

1. Audio recorded at 44.1 kHz. 16-bit stored as digital information is called a :
  - (a) Buffer.
  - (b) Sample.
  - (c) Byte.
  - (d) Stream.
2. Which is a benefit of customizing the panels and menus settings in Photoshop ?
  - (a) You will use less RAM and speed up image processing.
  - (b) You will work more efficiently and reduce unnecessary monitor clutter.
  - (c) You will show that you are a professional and increase file compatibility.
  - (d) You will increase backwards compatibility and reduce scratch disk use.
3. Which palette allows you to check what areas of your artwork are affected by transparency ?
  - (a) Transparency palette.
  - (b) Document Info palette.
  - (c) Graphic Styles palette.
4. Which two file formats are appropriate when saving your file for web publishing ? (Choose two).
  - (a) PNG.
  - (b) PSD.
  - (c) GIF.
  - (d) EPS.
5. \_\_\_\_\_ is a raster graphics editor (with significant vector graphics functionality).
  - (a) Adobe Photoshop.
  - (b) Adobe Photoshop Elements.
  - (c) Adobe Flash.
  - (d) Adobe Illustrator.

**Turn over**

6. You are preparing artwork for the Web. Which color mode should you use to help prevent dithering ?
- (a) LAB. (b) HSB.  
(c) RGB. (d) CMYK.
7. What is the format used to save artwork for mobile devices that optimizes the graphic content.
- (a) TIFF. (b) PNG.  
(c) SVG. (d) PDF.
8. Creating text as a graphic in Illustrator gives you all the following advantages except.
- (a) You can quickly create effects such as drop shadows.  
(b) You can mm it into a brush.  
(c) You can fit it to radical curves more easily.  
(d) You can easily correct the spelling.
9. What is the difference between raster and vector graphics ?
- (a) Raster graphics use CMYK, while vector graphics use the RGB.  
(b) Raster graphics are composed of pixels, while vector graphics are composed of path.  
(c) Raster graphics are composed of swatches, while vector graphics are composed of arcs.  
(d) Raster graphics can be exported, while vector graphics can only be saved.
10. When exporting as BMP, which three color mode options do you have ? (Choose three).
- (a) Bitmap. (b) CMYK.  
(c) Grayscale. (d) RGB.

(10 × 1 = 10 marks)

### Part B

*Give short answers to any **eight** of the following.*

*2 marks each.*

11. What is an instance in flash ?
12. How to use the Histogram palette ?
13. What is a Graphic User Interface ?
14. What is frame rate ?
15. What is a Smart Object ?

16. How to achieve Black/White with Color Detail ?
17. How do you create an artistic border ?
18. How to use scanner or digital camera with Photoshop Elements.
19. What's the difference between the Healing Brush and the Spot Healing Brush ?
20. Explain four colour printing process.
21. What is alpha channel ?
22. What is anchor point ?

(8 × 2 = 16 marks)

### Part C

*Give short essay answers to any **six** of the following.  
4 marks each.*

23. Write a note about compression and decompression.
24. Mention major application where graphics can be used ?
25. What is meant by saturated and unsaturated colors ?
26. What is essential difference between graphics and images ?
27. What are the foremost image file formats for printing ?
28. What are meant by transformation of graphical objects ?
29. Explain Audio features and applications ?
30. Discuss the fundamentals characteristic of sound ?
31. What are the various image enhancing techniques ?

(6 × 4 = 24 marks)

### Part D

*Write long essays to any **two** of the following.  
15 marks each.*

32. What is meant by compression and CODEC ?
33. How to Creating and placing new image in Editing Software ?
34. What is layer Mask ? Write features of layer masks and clipping mask ?
35. Write short note on 'Image output on monitor' ?

(2 × 15 = 30 marks)