

## 12<sup>TH</sup> COMPUTER APPLICATIONS

1) Define Multimedia and their features.

**Answer :** Multimedia allows the users to combine and change data from various sources like image, text, graphics, video and audio to a single platform.

**Features:**

- (i) It has become the latest enriching experience in the field of information sector.
- (ii) It has brought a lot of changes to computing, entertainment and education.

2) List out Multimedia Components

**Answer :** Multimedia has five major components like text, images, sound, video and animation.

3) Classify the TEXT component in multimedia.

**Answer :** Text component in multimedia can be classified as

- (i) Static text;
- (ii) Hypertext.

4) Classify the IMAGE component in multimedia.

**Answer :** Image acts as an important component in multimedia. Images are generated by the computer in two ways:

- (i) Bitmap images (or) Raster images
- (ii) Vector images.

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5) Define Animation and their features.

**Answer :** Animation is the process of displaying still images with continuous movement.

**Features:**

- (i) Screen object is a vector image.
- (ii) Animation tools are very powerful and effective.
- (iii) Frame rate: 16 frames/sec for smoothness impression, 25 frames/sec for natural looking.

6) List out image file formats.

**Answer :** Image file formats are TIFF, BMP, DIB, GIF, JPEG, TGA, PNG.

7) List out audio file formats.

**Answer :** Audio file formats are WAV, MP3, OGG, AIFE, WMA, RA.

8) List out video file formats.

**Answer :** Video file formats are AVI [Audio/Video Interleave] and MPEG (Moving Picture Experts Group).

9) Define Multimedia Production.

**Answer :** It is any sort of production that user combination of text, audio and graphics to tell about something.

Eg. Educational, Sale of product etc.

10) List out Multimedia Production team members.

**Answer :** The team comprises of members playing various roles and responsibilities like Script writer, Production manager, Editor, Graphics Architect, Multimedia Architect and Web Master.

11) What is desktop publishing?

**Answer :** Desktop publishing is the creation of page layouts for documents using DTP software.

12) Give some examples of DTP software.

**Answer :** Adobe PageMaker, Adobe InDesign, QuarkXpress, etc.

13) Write the steps to open PageMaker.

**Answer :** Start → All Programs → Adobe → PageMaker 7.0 → Adobe PageMaker 7.0

14) How do you create a New document in PageMaker?

**Answer :** (i) Choose File > New in the menu bar (or) Press Ctrl + N in the keyboard. Now Document Setup dialog box appears.

(ii) Enter the appropriate settings for your new document in the Document Setup dialog box.

(iii) Click on OK.

(iv) Now a new document called Untitled-1 opens on the screen.

15) What is a Pasteboard in PageMaker?

**Answer :** The area outside of the dark border is pasteboard. We can use it temporarily to hold elements while designing your document.

16) Write about the Menu bar of PageMaker.

**Answer :** It contains the following menus File, Edit, Layout, Type, Element, Utilities, View, Window, Help. When you click on a menu item, a pull-down menu and sub-menus appears.

17) Differentiate Ellipse tool from Ellipse frame tool.

**Answer : Ellipse tool:** Used to draw circles and ellipse.

**Ellipse frame tool:** Used to create elliptical placeholders for text and graphics.

18) What is text editing?

**Answer :** Editing means making changes to the text. Editing a text contains many tasks such as inserting and deleting words and phrases, correcting errors, moving and copying text to different places in the document.

19) What is text block?

**Answer :** A text block contains text you type, paste, or import.

20) What is threading text blocks?

**Answer :** All text in PageMaker resides inside containers is called threading text blocks. Text blocks that are connected are called threaded. The process of connecting text among text blocks is called threading text block.

142) Briefly explain about Multimedia Components.

**Answer :** They are explained below :

**i) Text :**

1. Text is the basic components of multimedia and most common ways of communicating information to other person.
2. Text component is classified into two such as (a) Static text (b) Hypertext.

**ii) Images:**

Images in multimedia are generated in two ways.

- a) Raster or Bitmap Images
- b) Vector Images.

**iii) Animation :**

Animation is the process of displaying still images with continuous movement. The two basic types of animations are (1) Path animation (2) Frame animation.

**iv) Sound :**

Sound is a meaningful speech in any language and providing the pleasure of music, special effects and so on.

**v) Video :**

1. Video is defined as the display of recorded event, scene, etc.
2. The video can be categorized in two types as (1) Analog video and (2) Digital video.

143) Describe the features and techniques of animation.

**Answer :** Animation is the process of displaying still images so quickly so that they give the impression of continuous movement.

**Features:**

- (i) Animation tools are very powerful and effective.
- (ii) Frame rate of 16 frames/sec gives the impression of smoothness.
- (iii) For natural looking, frames rate should be atleast 25 frames/sec.

There are two basic techniques of animations:

- (a) Path animation
  - (b) Frame animation.
- (a) Path Animation:

Path animation involves moving an object on a screen that has a constant background.

- (b) Frame Animation:

In frame animations, multiple objects are allowed to travel simultaneously and the background or the objects also changes.

144) Write roles and responsibilities of Production team members.

**Answer :** Team comprises of members playing various roles and responsibilities like Script Writer, Production Manager, Content Specialist, Editor, Graphics Architect, Multimedia Architect, Audio and Video specialist, Computer Programmer and Web Master.

145) Describe the various file formats in multimedia.



**Answer :** Various file formats used in multimedia are

- (i) Text formats
  - (ii) Image formats
  - (iii) Digital Audio file formats and
  - (iv) Digital Video file formats.
- (i) Text formats : Rich Text Formats and Plain Text Format are used in Text formats.
- (ii) Image formats : TIFF, BMP, DIB, GIF, JPEG, TGA, PNG are image formats.
- (iii) Digital Audio file formats : WAV, MP3, OGG, AIFF, WMA and RA are Digital Audio file formats.
- (iv) Digital Video file formats : AVI, MPEG are digital video file formats.

146) Explain animation industry and their scope.

**Answer :** 1. Animations may be in two (or) three dimensional. Two dimensional animation, bring an image alive, that occur on the flat X and Y axis of the screen and three dimensional animations occurs along X, Y and Z axis.

2. Two basic types of animations are Path animation and Frame animation.

3. Animation industry mostly used all fields like Education, Entertainment, Advertisement in Cartoon Films, Business systems and etc.

147) What is PageMaker? Explain its uses.

**Answer :** (i) Adobe PageMaker is a page layout software. It is used to design and produce documents that can be printed.

(ii) It includes tools that allow us to easily position text and graphics on document pages.

(iii) Creation of simple business card to a large book.


148) Mention three tools in PageMaker and write their keyboard shortcuts.


**Answer :** (i) Pointer tool: F9 (Select, move and resize text objects)

(ii) Line tool : Shift + F3 (Draw straight line in any direction)

(iii) Text tool : Shift + Alt + F1 (Type, Select and Edit Text).

149) Write the use of any three tools in PageMaker along with symbols.

**Answer :** 1. Pointer tool - used to select, move, and resize text objects and graphics. 

2. Text tool - used to type, select, and edit text. 

3. Rectangle tool - used to draw squares and rectangles. 