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**B.C.A. (Part - III) Examination, 2022**

**(Old Course)**

**Paper Seventh**

**MULTIMEDIA TOOLS AND APPLICATION**

**(305-A)**

*Time : Three Hours]*

*[Maximum Marks:50*

*[Minimum Pass Marks :20*

**Note: Attempt any two parts from each unit. All questions carry equal marks.**

**UNIT-I**

1. (a) What is Multimedia? Explain use of multimedia along with different development platforms.
- (b) Explain the concept and working of OLE in multimedia.

- (c) Explain any 5 image file formats with their features and limitations.

**UNIT-II**

2. (a) Describe in brief sampling, frequency, sound depth and channels with respect to digital sound.
- (b) What is "Morphing"? Explain 2D and 3D animation.
- (c) Explain animation of web. How to import a flash file in a webpage?

**UNIT-III**

3. (a) Explain in detail any 2 video standards.
- (b) Describe interlacing and non-interlacing in brief.
- (c) Explain various video compression techniques. Write advantages and disadvantages.

**UNIT-IV**

4. (a) Explain with example how are the multimedia applications are developed using authoring software.

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- (b) Write the difference between the formats of CDs and DVDs according to their characteristics.
- (c) Briefly discuss about multimedia development team and their skill requirements.

#### **UNIT-V**

- 5. (a) Explain virtual reality and its types.
- (b) Explain dynamic and embedded font technologies.
- (c) Discuss streaming and real video concept.