

Unique Paper Code: **62344414-OC**

Name of the Course: **B.A. Programme: DSC-4A**

Name of the Paper: **Multimedia Systems and Applications OC (CBCS)**

Semester: **IV**

Duration: **3 Hours**

Maximum Marks: **75**

Students admitted in the year: **2015, 2016, 2017 & 2018**

Instructions for Candidates

Attempt any **FOUR** questions.

All questions carry **equal** marks.

A question **MUST** be uploaded in the form of a single PDF file.

Q1)

Suppose you are creating a multimedia presentation.

- Enumerate three factors that you will keep in mind while choosing text for this presentation.
- List any four style attributes of font that can be used in this presentation.
- If you want to create an image for this presentation consisting of high rise buildings and a road scene. Which type of graphics (bitmap or vector) will be used for creating this image? Justify your answer.
- List any three visual effects that are available for transition from one slide to another.

Q2)

A school is organizing a virtual assembly.

- During the assembly, a student wants to play pre recorded piano music. Name the technique that you will use to store the piano recording. Justify your answer.
- At the end of assembly, still images of students will be displayed. Each image of the student shall contain the school building in the background. Which multimedia concept will be used to implement this?
- If the student images are to be displayed in a quick sequence, one after the other. Which technique will be used to blend and display these images smoothly? Name a software that can be used to create this.

Q3)

You are the product manager of a company. You have been given the task of creating an interactive webpage for marketing a new laptop.

- Illustrate the role of hypermedia in web page development with the help of three suitable examples.
- If you want to use a font that is not usually installed on your system, how will you resolve this issue? How is this issue handled at the user end if the user's system does not support this font?
- As a graphic designer, how will you design your own fonts for an application? Mention a tool that may be useful for this purpose.
- Mention two plug-ins for delivering video on your webpage.

Q4)

If you have a 3-D modelling program and you have to design a still image of a car using the primitive shapes.

- List four primitive shapes that can be used to create this car?
- Illustrate how each of the following techniques may be useful in designing an image of a car :
 - Extruding
 - Lathing
- Which colour model will you prefer for printing the image of the car? Justify your answer.
- Mention a popular free 3D modelling software. State one advantage and one limitation of this software.

Q5)

Consider the following scenario: a cold drink manufacturing company wants to promote their new cold drink to the general public.

- In case a promotional website is created, which software will be used by the user to open this website on his computer? How is this software different from a web server?
- In case an advertisement for radio is recorded, list any six operations to create/edit this advertisement.
- Given audio content, how does the compression of its audio file impact the audio quality?

Q6)

- Differentiate between interlacing and progressive scan.
- Name two hardware equipment and two software tools that may be useful to develop a video. Give reasons for your choice of software tools.
- A bank wants to set up a video display to showcase its schemes to prospective customers. In this scenario,
 - What kind of video display should be used? Give reasons.
 - Which authoring tool will you prefer to use? Justify your answer