

## SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

## Higher National Diploma in Information Technology

First Year, Second Semester Examination - 2019 HNDIT1210 - Graphics and Multimedia

Instructions for Candidates: Answer any (05) five questions All questions carry equal marks No. of questions

: 06

No. of pages

: (03) Three pages

Time

: Three (03) hours

Q1.

Multimedia is combination of many media to deliver interactive output to the users. I. (02 marks) Write two media which can enhance the interactivity.

Briefly explain (02) two of media you have mentioned in previous answer. (04 marks) II.

Integration and interactive are two different concepts in multimedia. Briefly explain III. (04 marks) the above concepts.

Mention the remembering levels of people according to the Edgar Dale (cone of IV. (04 marks) learning).

If you are asked to create a short film for software competition to represent SLIATE, V. what are the components needed to complete the above task successfully? Swell, rearing, voice (06 marks)

[Total 20 Marks]

Q2.

Modalities are the sensory systems through which a multimedia activity occurs. Write I. (02 marks) (02) two types of modalities use in multimedia development.

(04 marks) Give (04) four basic characteristics of a multimedia system.

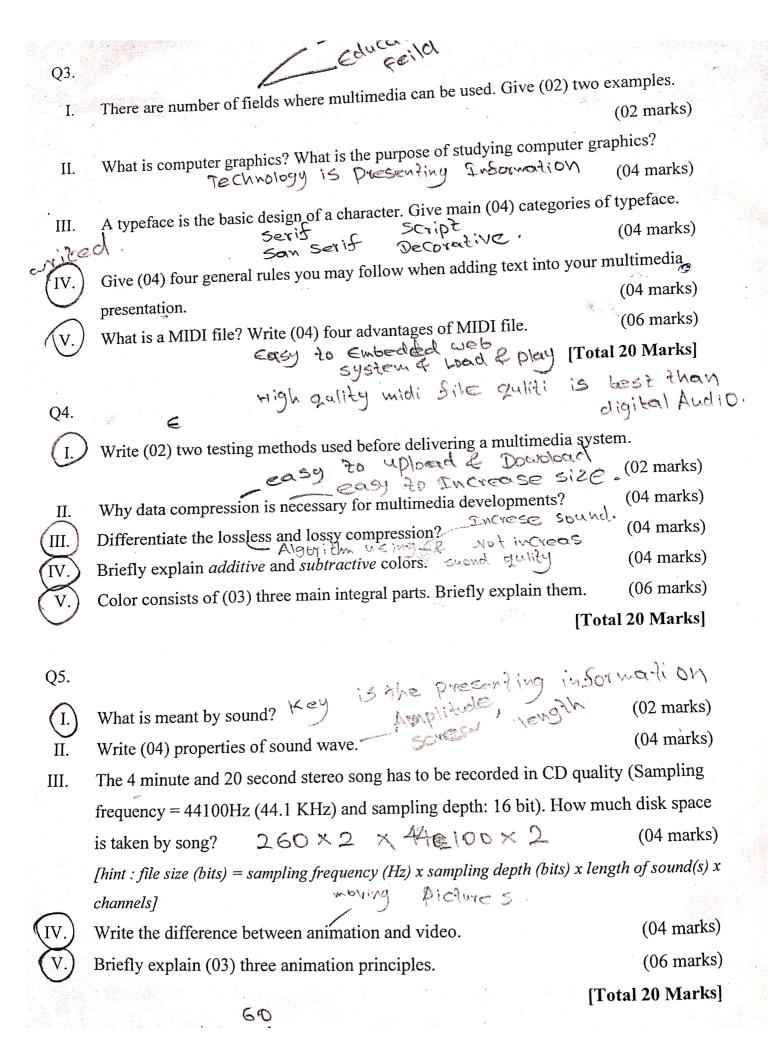
Differentiate between the characteristics of linear and non-linear multimedia.

(04 marks)

Multimedia authoring tools are used to merge multimedia elements. Give (04) four (04 marks) examples.

(06 marks) Briefly describe (03) three features of multimedia system. [Total 20 Marks]

Not writed.



Q6.

- I. What is an image file format?
- II. Briefly explain the (02) two types of graphics: raster and vector III. Expand the following abbreviations
  - Expand the following abbreviations.

    (a.) BMP —— Bit Map Photorapiic.
    - b. JPEG \_\_\_ Join photographics exp
    - c. PNG Portable Networ graph;
- IV. Draw the image of following encoded run length coding.
  - Row 1: "1", 1, 2, 1, 2, 1, 4, 1, 3, 1
  - Row 2: "0", 1, 1, 1, 1, 1, 1, 6, 1, 1, 1, 1
    - 12345

- Row 3: "1", 7, 6, 1, 2
- Row 4: "0", 1, 1, 1, 1, 1, 1, 6, 1, 1, 1, 1
- Row 5: "1", 1, 2, 1, 2, 1, 4, 1, 3, 1
- Row 6: "0", 3, 1, 5, 2, 5
- Row 7: "0", 3, 1, 4, 2, 5
- Row 8: "0", 3, 1, 3, 2, 2, 2, 3
- Row 9: "0", 3, 1, 4, 1, 2, 1, 4
- Row 10: "0", 1, 5, 1, 6, 3