



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. in Information Technology
Second Year – Semester II Examination – January/February 2023**

ICT 2210 – MULTIMEDIA TECHNOLOGIES

Time: Two (02) hours

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- Answer the **ALL** questions.
 - There are **FIFTEEN (15) MCQ** questions and **TEN (10) Short Answer** questions in **part A** and **THREE (03) Essay** questions in **part B** printed on **Four (04) pages**.
 - Write the English letter of the most suitable or correct answer for each MCQ question along with the question number.
 - Answers to short answer questions must be given in the answer script.
 - Calculators are allowed
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**PART A
MCQ Questions
(15 marks)**

1. What are examples of multimedia?
 A) Video games, movies, and television C) Computer-generated graphics
 B) Television series D) Digital pictures
2. What is computer-based training?
 A) A training for playing a video game
 B) A method of training a computer to reject viruses
 C) A method of education that allows people to learn at their own pace, using specially designed interactive software
 D) A method of training the computer to perform routine tasks
3. are typical examples of static images.
 A) Photographs B) File C) Animation D) Messages
4. Which of the following image file formats is a lossy format?
 A) GIF B) MPEG C) JPEG D) PNG
5. Which of the following is a technique to blend two or more images to form a new image?
 A) Modeling B) Morphing C) Animating D) Warping
6. Virtual Reality is helpful in training pilots in flight.....
 A) Imitation B) Model C) Simulators D) Prototyping
7. Special effects for sound could be added using a sound editing program called
 A) Sound echo B) Sound task C) Sound forge D) Sound page

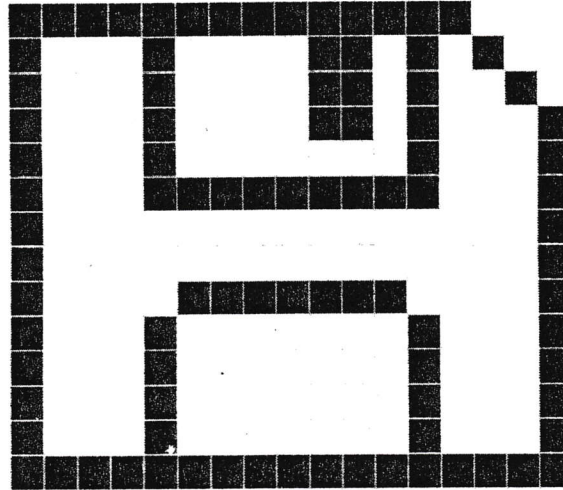
8. When considering internet broadcasting, the primary factor that needs to be considered in a multimedia file is the
 A) Size B) Bandwidth C) Length D) Width
9. The application that allows sending and receiving multimedia messages over a mobile phone is
 A) Short Messaging Service C) File Transfer Protocol
 B) Multimedia Messaging Service D) Post Office Protocol
10. is a special effect used to introduce each new slide during a slide presentation.
 A) Animation B) Bulleting C) Transition D) Mapping
11. A 16-bit image is capable of representing different colors.
 A) 2 B) 16 C) 256 D) 65,536
12. TIFF stands for:
 A) Transitional Image File Format C) Tagged Image File Format
 B) Toronto International Film Festival D) The Investment Fund for Foundations
13. The process of recording a sound, stored in the form of thousands of individual measurements, each at a discrete point in time, is called:
 A) Sampling B) Quantizing C) Synthesizing D) Sizing
14. What are the additive colors?
 A) Cyan, Magenta, Yellow C) Red, Green, Yellow
 B) Red, Green, Blue D) Cyan, Magenta, Black
15. The camera movement where the camera is moved horizontally from one side to another on a central axis is called:
 A) Truck B) Pan C) Tilt D) Roll

Short Answer Questions

(10 marks)

16. PNG stands for.....
17. dpi stands for
18. FTP stands for.....
19. The type of image used to represent lines, circles, and other graphics shapes is.....
20. Sound pressure level measured in.....
21. Non-sequential access among multimedia is called
22. A particular style of textual characters is called
23. The method that an image can be compressed with some loss of information is called.....
24. The spoken word, voices, music and even noise are called
25. The sensation in the ear that depends on the amount of energy carried by the sound wave is called.....

3. a) List three main characteristics of sound. Explain them in brief. (06 marks)
- b) An analog sound with frequency 1000 Hz is sampled at 1200 Hz rate to digitize the sound. Analyze the scenario and justify the consequences. You may use applicable theories to justify your answer if necessary. (06 marks)
- c) Explain three camera shots with graphical examples (06 marks)
- d) Perform Run-Length-encoding for given image.



(07 marks)

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