Instructions to Candidates:

1. The Examination paper consists of four questions and three pages including this one.
2. Answer ALL questions.
3. Questions may be answered in any order but your answers must show the question number clearly. Always start a new question on a fresh page.
4. All questions carry equal marks.
5. The Total Marks: 100.
Question 1 [25 Marks]

(a) Based on information presented in lectures, write your own definition of multimedia. (5 marks)

(b) Differentiate between lossy and lossless compression. (6 marks)

(c) Explain the term “electrical noise”. (2 marks)

(d) State the uses of the two compression standards MPEG1 and MPEG2. (6 marks)

(e) What is the importance of a player when running a multimedia application on the net? (3 marks)

(f) What is a “dissolve” transition? (3 marks)

Question 2 [25 Marks]

(a) Explain how and why multimedia is said to be persistent. (4 marks)

(b) Write short note on information or multimedia kiosks. (6 marks)

(c) Briefly describe two output devices for the developing application. (4 marks)

(d) What do you think would be the reasons for the take up of multimedia home computers? (6 marks)

(e) Explain the term “Armchair Multimedia”. (5 marks)
Question 3 [25 Marks]

(a) Differentiate between mono sound and stereo sound. (3 marks)

(b) Explain how MIDI is a better communication standard relative to Digital Audio. (6 marks)

(c) Testing sound in a multimedia title can be time consuming and challenging. Comment on this statement. (6 marks)

(d) Although CD-ROM players offer slow data transfer rates compared to hard disk, adequate video transfer can be achieved if digital video files are properly prepared. Explain in detail how this can be achieved. (6 marks)

(e) What are the two ways of editing a video program? (4 marks)

Question 4 [25 Marks]

(a) John wants to learn how to create photo montage. He has no knowledge of any editing tool. He wants to know what thing can be done or achieved using this software and has asked you to help him. (5 marks)

(b) Differentiate between large group and small group video conferencing systems. (5 marks)

(c) Write short notes on the three main types of authoring tools. (9 marks)

(d) Explain how can a virtual campus help in education? (4 marks)

(e) What are Video PCs? (2 marks)

End of Exam Paper