



JOMO KENYATTA UNIVERSITY

OF

AGRICULTURE AND TECHNOLOGY

ICS 2303 MULTIMEDIA SYSTEMS ASSIGNMENT

INSTRUCTIONS: Attempt all questions

Question One

The following character string is to be transmitted using Huffman coding.

ABACADABACADABACABAG

- i) Derive the Huffman code tree using static and dynamic Huffman coding
- ii) Determine the savings in transmission bandwidth over ASCII-8

Question two

Describe four multimedia authoring metaphors.

Question three

- a) Describe devices commonly used in virtual environments.
- b) Describe three criteria used in classifying virtual environments. Give examples in each case.

Question Four

Your firm has been awarded a contract to develop and implement aa multimedia application. Describe the phases you would include in the methodology for the multimedia application project proposal.