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**3NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**

**FACULTY OF SCIENCE**

**DEPARTMENT OF COMPUTER SCIENCE**

**July 2018 Examinations**

**CIT463: Introduction to Multimedia Technology Credit Units: 2**

**Instruction**: *Answer Question one (1) (25marks) and any other three (3) questions each carrying 15 marks* **Time:** *2 hours*

1a) What do you understand by Programming software? State its various tools.

***(3½ marks)***

b) What are the challenges of using colour? ***(3 marks)***

c) Define the term Authoring System and list what can be made with multi-media authoring software. **[5 marks]**

d) Distinguish between an image and a video. ***(2 marks)***

e) Itemise the components required for a video conferencing system and the possible hardware that can be used for each component. ***(7½ marks)***

f) Briefly describe the different types of ATM network that you are familiar with. ***(4 marks)***

2a) Name and describe the types of network architecture. ***(6 marks)***

b) List and briefly describe the three basic types on Computer network ***(9 marks)***

3a) What do you understand by Psychoacoustics? ***[2 marks]***

b) State the function and the limitations of the Psychoacoustic model. ***(4½ marks)***

c) What do you understand by the term "digital image"? ***(2 marks)***

d) Write short notes on the key feature of a digital image. ***(4½ marks)***

e) Mention any four essential features for a Multimedia system. ***(2 marks)***

4a) Briefly explain the basics of Colour. ***(2 marks)***

b) Is Colour management a subjective or a technical exercise? Justify your answer. ***(5½ marks)***

c) List and explain the different areas of digital image processing. ***(6 marks)***

d) Identify three types of multimedia hardware systems ***(1½ marks)***

5a) What do you understand by Chromatics? ***(4 marks)***

b) Enumerate the benefits of using colour ***(3 marks)***

c) List and explain levels of ATM services known to you. ***(8 marks)***