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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

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

**FACULTY OF SCIENCES**

**APRIL, 2019 EXAMINATIONS**

**COURSE CODE: CIT463**

**COURSE TITLE: Introduction to Multimedia Technology**

**CREDIT: 3 Units**

**TIME ALLOWED: 2½ Hours**

**INSTRUCTION: Answer Question 1 and any other FOUR (4) Questions**

**QUESTIONS**

1a) Describe the term ‘pixel’, based on its’ properties. ***(3marks)***

b) What do you understand by an ‘Icon-based authoring tool’? ***(3 marks)***

c) List any six (6) types of specialized server (**3marks**)

d) State any three functions of the ATM? ***(3 marks)***

e) Write short notes on the following storage devices:

i) CD-R ***(1 mark)***

ii) CD+R ***(2 marks)***

iii) CD-RW ***(3 marks)***

f) Discuss the relationship between the personal computer (PC) and computer server. ***(4 marks)***

2a) Enumerate any four features that make dedicated servers suitable for their task environment ***(2 marks)***

b) What do you understand by the term "Specialized servers"? ***(1 mark)***

c) Write short notes on the following:

i) Application servers. ***(3 marks)***

ii) File and print servers. ***(3 marks)***

iii) Mail servers. ***(3 marks)***

3a) Discuss the following:

1. the real-time transfer protocol ***(5 marks)***
2. Active Movie ***(4 marks)***

b) State three common ways digital image can be created ***(3 marks)***

4a) What do you understand by Psychoacoustics? ***[2 marks]***

b) State the function and the limitations of the Psychoacoustic model. ***(1½ 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 (4) essential features for a Multimedia system. ***(2 marks)***

5a) Describe the key elements of a protocol ***(4½ marks)***

**b**) Enumerate t any six (6) multimedia applications ***(3 marks)***

c) Outline the components required for a *videoconferencing* system. (***4½* marks**)

6a) State FOUR (4) reasons for a computer network. ***(4 marks)***

b) Briefly describe the basic operation of *Internet telephony* system *(****5 marks****)*

**c**) Mention the three (3) sub-areas of the digital image processing. ***(3 marks)***