NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
MULTIMEDIA TECHNOLOGY
2024_1 EXAMINATION_

PROGRAMME: B.SC COMPUTER SCIENCE
COURSE TITTLE: MULTIMEDIA TECHNOLOGY
COURSE CODE: CIT 742
CREDIT UNIT(S): 3 UNITS
TIME ALLOWED: 2.30 MINUTES
INSTRUCTION: ANSWER QUESTIONS ONE (1) AND ANY OTHER THREE (3)

QUESTION ONE (1)
a) Explain the process by which human ear hear voices   5 marks
b) Explain the process of image histogram in multimedia technology
5 marks
c) How can image be analyzed in multimedia system?   15 marks

QUESTION TWO (2)
a) Explain the difference between contrast stretching and histogram equalization   10 marks
b) What is image restoration?   5 marks

QUESTION THREE (3)
a) How does noise affects the quality of image and how can it be reduced?
10 marks
b) What are the applications of image histogram?   5 marks

QUESTION FOUR (4)
a) What are five limitations of a histogram?   5 marks
b) Explain what you understand by image analysis   5 marks
c) What are the two types of image analysis?   2 marks
d) What is difference between image processing and image analysis?
3 marks

QUESTION FIVE (5)
a) Define the term image Enhancement   2 marks
b) List five methods of image enhancement   3 marks
c) Noise in image processing   3 marks
d) How to reduce noise in image processing?   5 marks
e) What is the difference between noise and artifact?   2 marks

QUESTION SIX (6)
a) What do you understand by audio streaming?   5 marks
b) What are the advantages of image histogram?   5 marks
c) Why do we do image analysis?   5 marks