Click to download more NOUN PQ from NounGeeks.com



NATIONAL OPEN UNVERSITY OF NIGERIA

Plot91, University Village Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi-Abuja.

FACULTY OF SCIENCECourse Code: CIT891 **Course Title:** Advanced Multimedia Technologies

Credit Unit: 3units

Instruction: Answer Question one and any other two **Time:** $2^{1}_{/2}$ hrs

Question One

1a) What is a histogram? (2marks)

Q1b) Briefly explain the following terms: (2marks)

Q1c)Explain the meaning of multimedia technology (2marks)

Q1d) States any three likelihood of compatibility between different encoders and decoders. (7marks)

Q1e) Explain the Nyquist sampling theorem, with reference to the sampling rate.

(5marks)

Q1f) With the aim of the clear diagram only, Explain the Analog to digital signal conversion Source. (6marks)

Question Two

Q2a) Define a Multimedia Workstations. (3marks)

Q2b) Explain with examples Input Devices and Output Devices. (8marks)

Q2c) Enumerate the features for multimedia systems? (4marks)

Question Three

Q3a) Mention two popular methods used for Analog to-digital conversion. (2marks)

Q3b) State any two components of multimedia. (2marks)

Q3c) Outline and describe four (4) desirable features of a Multimedia System. (4marks)

Question Four

Click to download more Noun Pro from Noun Greeks.com

Q4b) Using a suitable, well labelled diagram, discuss the decoder design.

(9marks)

Question Five

Q5a) Below table shows the number ni of grey values, use the table to draw a 4-bit grey scale image histogram.

Grey level
$$i$$
 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 n_i 15 0 0 0 0 70 110 45 70 35 0 0 0 0 0 15 (6marks)

Q5b) Enumerate and explain four main properties of a colour source that the eye makes (4marks)