

# NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMERCE AND INFORMATION SCIENCE  
DEPARTMENT OF JOURNALISM AND MEDIA STUDIES  
ADVANCED INFORMATION TECHNOLOGY (IJM 1206)  
MAY 2005 EXAMINATION  
TIME ALLOWED: 3 HOURS

## **INSTRUCTIONS TO CANDIDATES**

1. Section A is **compulsory**.
2. Answer **any three** questions in section B.
3. Start each answer on a new page.
4. Poor spelling and grammar will be penalised.

## **SECTION A: COMPULSORY**

### **Question 1**

- a) Define the following terms
- i) PHP [ 3 marks]
  - ii) XML [ 3 marks]
  - iii) APACHE [ 3 marks]
- b)
- i) Write a JavaScript to display today's date [ 6 marks]
  - ii) Write HTML code to produce the following table with URL links. [10 marks]

NUST	UNISA
HERALD	CHRONICLE

- c) What do these HTML tags represent?
- i) <img SRC> [ 2 marks]
  - ii) <I> [ 2 marks]
  - iii) <OL> [ 2 marks]
  - iv) <... CELLPADDING = "1"> [ 2 marks]
  - v) <BR> [ 2 marks]
- d) What are the advantages of using FrontPage [ 5 marks]

**TOTAL: [40 marks]**

**SECTION B: ANSWER ANY THREE QUESTIONS**

**Question 2**

The ministry of health has requested you to design a website for their anti-malaria campaign. What are the major factors to consider? What are the major factors and design issues will you take into account when designing the website.

[20 marks]

**Question 3**

Discuss various ways in which the internet has affected the operations of the print media.

[20 marks]

**Question 4**

- a) Define e-mail protocol giving three examples. [ 8 marks]
- b) Will advances in e-mail and information technology render postal services? [12 marks]

**TOTAL: [20 marks]**

**Question 5**

- a) Give practical applications of databases and explain what benefits they will give to an organization such as a radio station. [10 marks]
- b) Define the following database concepts
  - i) Primary key [ 2 marks]
  - ii) Field [ 2 marks]
  - iii) Record [ 2 marks]
  - iv) File [ 2 marks]
  - v) Data Type [ 2 marks]

**TOTAL: [20 marks]**

**Question 6**

- a) Define the internet and list at least five benefits that a Journalist can benefit from this information technology resource. Give examples in your answer. [15 marks]
- b) Define the following internet services
  - i) Gopher
  - ii) Newsnet

[ 5 marks]

**TOTAL: [20 marks]**