



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS

COURSE CODE: CIT 853

COURSE TITLE: INTERNET CONCEPTS AND WEB DESIGN

COURSE CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER TWO (2) QUESTIONS

Question 1:

- a. What is the distinction between the World Wide Web (WWW) and the Internet? (4 marks)
- b. Discuss the following Internet concepts: (9 marks)
 - i. Hypertext Transfer Protocol (HTTP)
 - ii. Hyperlinks
 - iii. Uniform Resource Locator (URL)
- c. Describe the DoD reference model (5 marks)
- d. Discuss the Session and Presentation layers of the OSI Reference Models. (6 marks)
- e. How do you administer an Internet? (2 Marks)
- f. Briefly describe the history of Internet. (4 marks)

Question 2:

- a. Briefly describe the following: (6 marks)
- b. Provide a JavaScript program code that generates the subsequent output (6 marks)
- c. Write short note on Web Services, highlighting various components involved. (4 marks)
- d. Enumerate four examples of whitespace characters (4 marks)

Question 3:

- a. Explain the concepts of 3-tier and N-tier architecture (4 marks)
- b. Write short notes on the following terms (9 marks)
 - i. Web pages
 - ii. Common Gateway Interface (CGI)
 - iii. Mark-up Language
- c. Mention two types of graphic file formats. (2 marks)
- d. What is IP? Which of the IP address is reserved for loopback and why? (5 marks)

Question 4:

- a. List and explain four (4) Application Layer protocols (12 marks)
- b. Briefly describe the following terms: (8 marks)

Question 5:

- a. Briefly describe Hypertext Mark-up Language (HTML). (5 marks)
- b. Explain the concept of layered architecture (3 marks)
- c. Describe the use of the following HTML formatting elements. (8marks)
 - (i)
 - (ii)
 - (iii)
 - (iv) <h1>
- d. What are explicit tags? (2 marks)
- e. Briefly explain the difference between the Implicit and Explicit styles (2 marks)