



NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
JUNE/JULY EXAMINATION

COURSE CODE: CIT311
COURSE TITLE: Computer Networks
TIME ALLOWED: 3hrs
INSTRUCTION: Answer any five (5) questions.

QUESTIONS

- 1a. Give a brief description of the concept of ring topology. (4 marks)
- b. State four (4) requirements for an efficient traffic control mechanism. (12 marks)
2. Write the key function of the following:
 - i. Bridges (3 marks)
 - ii. Transport Layer (3 marks)
 - iii. Routers (2 marks)
 - iv. Repeaters (3 marks)
 - v. Datagrams (3 marks)
- 3a. Distinguish between Baseband and Broadband Communication. (10 marks)
- b. Give 2 regular applications of Integrated Services Digital Network (ISDN) (4 marks)
4. Electronic mails have become very popular in transferring information, specify any 7 features of this mode of information transfer.
- 5a. Give 2 common problems that can occur in RIP. (4 marks)
- c. State any five (5) tasks which a modem can perform. (10 marks)
- 6a. Give the full meaning of the following acronym, PTI, within the context of computer Networks. (2 marks)
- b. Describe how the ATM protocol works. (12 marks)
7. Specify the status of the modem indicator light in the following settings:
 - a. When receiving a call. (4 marks)
 - b. If the modem is sending data. (4 marks)
 - c. When the modem detects the remote modem's carrier. (4 marks)
 - d. If the computer is ready to send or receive data. (2 marks)