Click to download more NOUN PQ from NounGeeks.com
A-PDF Watermark DEMO: Purchase from www.A-PDF.com to remove the watermark

NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
2021_1 EXAMINATIONS

COURSE CODE: CIT305
COURSE TITLE: NETWORKING AND COMMUNICATION TECHNOLOGY
COURSE CREDIT: 3 UNITS
TIME ALLOWED: 2½ HOURS
INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER FOUR (4) QUESTIONS

QUESTIONS

1a (i) State four (4) purposes in which computer networks can be employed ***(4 marks)***
(ii) Briefly describe the main function of Data link in OSI model ***(2 marks)***
(iii) List types of Physical Media as applicable in the *OSI* reference model ***(3 marks)***

1b (i) Internet Protocol is the primary layer 3 protocol in the internet suite. What is the significance of IP in the internet suite? ***(3 marks)***

1b (ii) What do you understand by the terms network security? ***(3 marks)***

1b (iii) Define enterprise private network ***(2 marks)***

1c (i) Outline the three Common Digital Modulation Techniques ***(3 marks)***

1c (ii) Describe Integrated services ***(2 marks)***

2a Briefly analyse the following categories of ISP: ***(6 marks)***
(i) Tier 1 *ISPs*
(ii) Tier 2 *ISPs*
(iii) Tier 3 *ISPs*

2b Write short notes on the following purposes of computer networks: ***(6 marks)***
(i) Facilitating communications
(ii) Sharing hardware
(iii) Sharing files, data, and information

3a Distinguish between Virtual Private Network and Backbone network ***(6 marks)***

3b (i) What is the major challenge in mobile communications? ***(3 marks)***

(ii) State any three categories of extranet ***(3 marks)***

4a Outline the functions of the following OSI layers: ***(6 marks)***

(i) Application layer (ii) Presentation layer (iii) Session layer

4b (i) What is the key advantage of *GPRS* over *GSM* ***(3 marks)***

(ii) State three applications of GPRS ***(3 marks)***

Click to download more N N PQ from NounGeeks.com

5. State the differences between the following pairs within the context of networking and communication technology:
(a) shielded and unshielded twisted pair cable ***(6 marks)***
(b) *thinnet and* thicknet coaxial cable ***(6 marks)***

Total Marks = 12 marks

6a (i) State any four (4) characteristics of a network, that protocol rules guidelines can regulate ***(4 marks)***

6a (ii) How can Protocols be implemented in data communication ***(2 marks)***

6b Outline the significance of the following network protocol suites in Internetworking communications: (i) Internet Protocol (ii) Transmission Control Protocol ***(6 marks)***