

CRAWFORD UNIVERSITY FAITH CITY IGBESA

COLLEGE OF NATURAL SCIENCES

DEPARTMENT OF COMPUTER AND MATHEMATICAL SCIENCES

RAIN SEMESTER EXAMINATION

COURSE CODE: ICT 212 COURSE TITLE: INTRODUCTION TO NETWORKING

SESSION: 2017/2018 TIME ALLOWED: 2 HRS

**Instructions:**

- ❖ Use your matriculation number as the only means of identification on your answer script.
- ❖ ANSWER ANY THREE QUESTIONS IN ALL.

- 1a. Explain the following: (i) Communication network (ii) Computer network (iii) Resource sharing (6 Mks)
- 1b. Distinguish between a wired and a wireless network. (4 Mks)
- 1c. There are several types of computer networks that can be characterized by two ways basically. Mention them. (2 Mks)
- 1d. Explain the following in details: (i) LAN (ii) PAN (iii) Compare LAN and PAN (iv) Contrast LAN and PAN (8 Mks)
- 2a. Write short notes on the following: (i) MAN (ii) WAN (iii) Storage Area Network (SAN) (iv) GSM (v) PC (10 Mks)
- 2b. Describe the System Area Network, Enterprise Private Network, Virtual Private Network, Network Interface Card and Network Operating System (10 Mks)
- 3a. List three (3) advantages and five (5) disadvantages of peer-to-peer Network. (4 Mks)
- 3b. (i) State one (1) example of Client/Server network. (1 Mk)

(ii) List two (2) advantages of servers. (2 Mks)

(iii) State eight (8) factors to be considered when setting up a Network. (4 Mks)

3c. (i) List five (5) disadvantages of Bus Topology Network. (ii) Highlight three (3) advantages and five (5) advantages of Bus Topology. (9 Mks)

4a. Describe the following: (i) Star topology arrangement (ii) Diagram of Star topology network (iii) Five (5) advantages of Star topology (iv) Four (4) disadvantages of Star topology network (11 Mks)

4b. Describe (with diagram) the Ring Topology Network. (3 Mks)

4c. List two (2) advantages of the ring Topology. (2 Mks)

4d. State four (4) disadvantages of Ring Topology. (4 Mks)

5a. Given the following Network addresses: (i) 80.125.15.100 (ii) 200.10.117.106 (iii) 150.90.80.108 and (iv) 179.11.16.65. Convert the IP addresses from decimal to their corresponding binary form. (8 Mks)

5b. Mention two (2) advantages and five (5) disadvantages of Mesh topology. (7 Mks)

5c. (i) Describe (with diagram) the Hybrid Topology (ii) Explain the Serial or bit-serial transmission. (5 Mks)