

CRAWFORD UNIVERSITY, FAITH CITY, IGBESA, OGUN STATE, NIGERIA
COLLEGE OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF COMPUTER AND MATHEMATICAL SCIENCES (BSc ICT)
SEMESTER: RAIN SESSION: 2017/2018
COURSE TITLE: INFORMATION TECHNOLOGY , CODE: ICT 224, UNIT: 3

INSTRUCTION: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B.

TIME ALLOWED: 3hrs

SECTION A

- a. How is Information Technology applied on each of the following Application domains to benefit the society?
i. Modernized Agriculture, ii. Crime Detection, iii, Decision Making, iv. Air Transportation.
v. Smart Houses, 2mks each=10mks
- b. What do you understand as Web system in Information Technology 2mks
- c. i. What is a Wireless Sensor Network 2mks
ii. Mention any two types of Wireless Sensor Networks (2mks) and their corresponding challenges (2mks)
- d. Describe the functionalities of the following as beneficial Information Technology tools:
i. WiFi, ii. VOIP, iii. Client Server, iv. SharePoint, v Packet- Switching, vi, Broadband connection. 2mks each= 12mks
- e. Briefly explain the following strategic uses of Information Technology applications in achieving and sustaining competitive advantage:
i. To develop alliances and cut costs,, ii. To promote growth, iii. For strategic differentiation,
iv. To lock-in customers and create a high switching cost .
2 mks each= 8mks
- f. i. What do you understand as a 'Platform Technology' in Information Technology? 2mks
ii. Describe the characteristics of Platform Technology in Personal Computing 2mks

Total= 40mks

SECTION B

1. The study of Human Computer Interaction(HCI) as an Information Technology covers certain human user tasks and computers.
 - i. What are these tasks? 6mks
 - ii. What benefits are derivable by the computer user as a result of the study in i. above? 4mks
2. Distinguish between the following: i. Information, ii. Technology, iii. Systems, iv. Information System, v. Information Technology. 10 mks
3. Briefly explain the following types of Network as Information Technologies:
 - i. Storage Area Network, ii. System Area Network, iii. Enterprise Area Network, iv. Virtual Private Network, v. Personal Area Network. 10mks
4. Select a typical organization (e.g Manufacturing/Commercial, Academics, , etc) with which you are familiar Briefly describe the performance of such organization under the following headings:
 - i. the type of organisation; ii. functions within the organisation; iii. information flow and its use;
 - iv ICT systems implemented; v. the impact of the ICT on methods of production or services,Your brief should not exceed 1 page of your answer sheet. 10mks