

KENYA POLYTECHNIC UNIVERSITY COLLEGE

SCHOOL OF HEALTH SCIENCES AND TECHNOLOGY

DEPARTMENT OF COMMUNITY AND PUBLIC HEALTH

DIPLOMA IN COMMUNITY AND PUBLIC HEALTH

END OF STAGE 2 EXAMINATION

NOVEMBER 2011

**INFORMATION AND COMMUNICATION
TECHNOLOGY 2**

TIME 2 HOURS

Instructions to candidates

This paper consists of two sections A and B

Section A is compulsory – Answer **ALL** questions in this section

Answer any **THREE** questions from section B

This paper consists of 3 printed pages

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SECTION A (*Attempt all questions in this section*)

1. Explain the following terms as used in information systems.
 - i. Hacker
 - ii. Craker(4 Marks)
2. a) Define Data Processing. (2Marks)
b) Explain Two main categories of data processing. (2Marks)
3. Using relevant examples explain four generations of software development (4 Marks)
4. Distinguish between the following IT terms.
 - i. RAM and ROM.
 - ii. LAN and WAN.(4 Marks)
- 5 Define network terminologies
 - i. Browser
 - ii. World Wide Web
 - iii. Computer virus
 - iv. Software piracy(4 Marks)
- 6 Distinguish between the following
 - i. System software and application software
 - ii. Analog and digital computer(4 Marks)
7. Define the following terms as used in WAN.
Microwave system, satellite system (4 Marks)
8. i. Explain the main feature of MS Powerpoint. (2 Marks)
ii. List any Four transition styles used in MS Powerpoint. (2 Marks)
9. Differentiate the following
 - i. Copy and Cut
 - ii. File and Folder(4 Marks)
10. Explain four characteristics that make computers superior to human beings (4 Marks)

SECTION B (Attempt any **Three** (3) questions in this section)

11. (a) Explain the main components of Local Area Network. (8 Marks)
- (b) Explain any three common types of internet fraud. (6 Marks)
- (c) With the aid of a sketch diagram describe any Two LAN topologies. (6 Marks)
- 12 (a) Explain Four advantages of computerizing an organization. (4 Marks)
- (b) i) Define Spreadsheet. (8 Marks)
- ii) Explain the main features of MS Excel (6 Marks)
- (c) Outline the main steps of inserting a table in MS word (2 Marks)
- (d) Explain why testing is takes place throughout the system development Process (8 Marks)
- 13 (a) Briefly Explain four types of relationships used in developing a database using Ms Access (8 Marks)
- (b) Briefly explain any Four fact finding methods. (4 Marks)
- (c) Outline any Four physical threats to an information system (8 Marks)
- 14.(a) Define Database System (2 Marks)
- (b) Explain the **Four** main components of Database System. (8 Marks)
- (c) Differentiate between Point-To-Point and Multidrop line contact. (4 Marks)
- (d) Explain the **TWO** main approaches of constructing programs. (6 Marks)
15. (a) Define data communication. (2 Marks)
- (b) Explain any **Four** Functions of an operating system. (8 Marks)
- (c) Explain Five main phases of System Development Life Cycle(SDLC) (10 Marks)