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SUBJECT: INFORMATION & COMMUNICATION TECHNOLOGY

SUBJECT CODE: 2908/103 CLASS: DHRM 2013 LECTURER: DAVID KIARIE DATE: 29TH MAY 2013 TIME: 2 ½ HOURS

INSTRUCTIONS:

This paper consists of SIX Questions. Answer Any FOUR Questions.

OUESTION ONE

a) Define the term 'network' as used in ICT.
b) With the aid of a diagram, describe four components of the central processor.
c) Explain two factors considered when purchasing a computer.
d) Briefly, describe two types of ROM.
[2mks]
[8mks]
[4mks]

e) A Human Resource Manager would like to create a letter for 100 employees in a company. Explain the appropriate word processor feature that will help the manager in carrying out the task.[2kms]

OUESTION TWO

a) Two ways of classifying computers is in terms of 'size and capabilities' and 'generations'. Describe two types of computers in each category. [8mks]

b) (i) Define a DBMS. [2mks]
(ii) Describe two components of a DBMS. [4mks]
(iii) Outline two functions of a DBMS. [2mks]
c) State **two** areas where presentation software can be used. [2mks]

d) Outline **two** uses of Internet in an organization. [2mks]

QUESTION THREE

a) Some contents of computer files consist of bit, field, and block. Describe each of the content.

[6mks]

b) Describe the following file organization methods:

i. Serial

ii. Sequential [4mks]

c) define the following components of a computer network:

i. Hub

ii. Router

iii. Modem [6mks]

d) Distinguish between *absolute* and *relative* cell addressing as used in spreadsheets.[4mks]

QUESTION FOUR

a) Computer software is classified into two areas namely system software and application software. Examples of system software include: translators and utilities while examples of application software are general packages, tools and specialist packages

Required:

i. Describe briefly two types of translators.

[4mks]

ii. What is a utility?

[3mks]

iii. Describe two types of utilities.

[6mks]

iv. What are specialist packages?

[3mks]

b) Identify **four** health hazards associated with the use of computers in an organization.

[4mks]

QUESTION FIVE

a) Define the term database.

[3mks]

- b) Describe the following types of databases:
 - i. Relational database
 - ii. Network database
 - iii. Hierarchical database

[6mks]

- c) Explain the following terms as applied in spreadsheet programs:
 - i. Sorting

ii. Filtering

[4mks]

d) Distinguish between a CD-ROM and a DVD.

[3mks]

e) Describe the data processing cycle.

[4mks]

QUESTION SIX

a) The table below shows marks for various subjects scored by students in a spreadsheet program.

	A	В	C	D	E	F	G
1	NAME	ICT	ACCOUNTS	HR	TOTAL	AVERAGE	RESULT
2	Jane	35	20	40			
3	James	47	65	70			
4	rose	70	55	80			
5	Highest marks						
6	Lowest marks						

Write a formula to perform each of the following, indicating the cell where the formula should be placed:

- i. Calculate the total marks for each student.
- ii. Calculate the mean marks for each student.
- iii. Find the highest marks.
- iv. Find the lowest marks.
- v. Generate results as "pass" when the average mark is greater than 40 or "fail" for otherwise.

[12mks]

- b) In computer crimes, describe the following terms:
 - i. Virus
 - ii. Hacking
 - iii. Eavesdropping
 - iv. Worm

[8mks]