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UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN APPLIED ACCOUNTING, BACHELOR OF SCIENCE IN HOSPITALITY AND TOURISM MANAGEMENT, BACHELOR OF EDUCATION SCIENCE, BACHELOR OF SCIENCE IN NURSING, BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES, BACHELOR OF SCIENCE IN MEDICAL MICROBIOLOGY, BACHELOR OF SCIENCE IN COMMUNITY HEALTH AND DEVELOPMENT, BACHELOR OF SCIENCE IN PUBLIC HEALTH AND BACHELOR OF SCIENCE IN HEALTH RECORDS AND INFORMATION MANAGEMENT

CIT 3117/HPR 3122 CIT 3100/CIT 3166: INTRODUCTION TO COMPUTER AND APPLICATIONS

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- Explain any three main functions performed by most modern operating systems. [6 Marks]
- Milkah realized that the coming up of a new university carried with it business opportunities like typing students projects and developing software for the university among other. She decided to buy a suitable computer and has approached you for advice. Kindly advise her on the factors to consider. [6 Marks]
- Briefly describe the key characteristics of the Third Generation of computers. Giving examples of the key hardware and software Technologies used. [6 Marks]



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

- d) Discuss six factors that affect the performance and capability of a CPU design. [6 Marks]
- e) Describe three advantages and three disadvantages of customised technique used for acquiring computer software for an organization. [6 Marks]

QUESTION TWO (20 MARKS)

- a) Mark is a first year student taking computer applications as a unit and he wishes to save all his notes and exercises in one folder for ease of access. Explain the two procedures that Mark would use to create a folder [4 Marks]
- b) Choice of printers is influenced by different factors. Explain any FOUR of these factors. [4 Marks]
- c) To enhance applicability, Microsoft Excel provides a number of inbuilt functions. Describe any four such functions using examples. [4 Marks]
- d) As much as we say that computers are useful to humans, they come with some disadvantages. Discuss any four disadvantages of computers [4 Marks]
- e) PowerPoint has several types of views that can be used for different uses in creating slides. Describe two layout views of slides in Microsoft PowerPoint. [4 Marks]

QUESTION THREE (20 MARKS)

- a) Identify the most appropriate input method for each of the following scenarios [4 Marks]
- i) A limp less computer operation
 - ii) A copy typist inputting minutes
 - iii) Drawing engineering works
 - iv) Issuing commands by pointing and drawing of graphical images
- b) What is the role of the following features in Microsoft Word? [4 Marks]
- (i) Word wrap



- (ii) Auto text
- (iii) Thesaurus
- (iv) Drop cap

c) Briefly describe four ways you can use to protect your computer against malware. [4 Marks]

d) Perform the following conversions; [6 Marks]

- i) 110010010_2 to hexadecimal
- ii) $ABD7_{16}$ to octal

e) Explain the differences between animation effects and transition effects as used in Microsoft PowerPoint. [2 Marks]

QUESTION FOUR (20 MARKS)

a) Clare is using Microsoft Word and wants to insert a table, change the page color and apply a watermark. Explain the steps she should use to accomplish this. [6 Marks]

b) With the aid of a diagram describe any two types of network topologies. State one advantage and one disadvantage of each. [6 Marks]

c) Describe the following computer Malware

- (i) Worms [2 Marks]
- (ii) Trojan horse [2 Marks]

d) Briefly explain the following terms as used in Microsoft Excel

- (i) Cell reference [1 Mark]
- (ii) Worksheet [1 Mark]
- (iii) formulae [1 Mark]
- (iv) Active cell [1 Mark]

QUESTION FIVE (20 MARKS)

a) Outline two main differences between Magnetic disks and magnetic tapes [4 Marks]



- b) The table below shows an extract from a spreadsheet program. Use it to answer the questions that follow.

	A	B	C	D	E	F
1	<u>IDNo</u>	<u>Salesman Name</u>	<u>Sales</u>	<u>Commission</u>	<u>PAYE</u>	<u>Net Pay</u>
2	P001	Jacinta	150000			
3	P022	Peter	200000			
4	P025	<u>Fadhili</u>	80000			
5	P028	Mercy	120000			
6	P030	<u>Wazz</u>	70000			

- (i) The table below shows the percentage commission earned by the salesmen with respect to their sales in column C.

Sales	% Commission
More than 100000	30
50000 – 99999	20
0 - 49999	10

Using cell addresses and a logical function, show a formula to compute the commission for Mercy. [3 Marks]

- (ii) Given that PAYE in column E is deducted from the commission earned at the rate of 15%. Using cell addresses only, show a formula to compute the PAYE payable by Fadhili. [2 Marks]

(iii) Net Pay in Column F is given by the commission less PAYE. Using cell addresses only, show a formula to compute the net pay for Jacinta. [1 Mark]

- c) A student has bought a computer for use at home. The computer had the following peripherals: Monitor, printer, keyboard and mouse. It also had the following specifications: 1.8GHZ, 256 MB RAM and 20GB hard disk.

i) Outline the purpose of each peripheral device named above. [2 Marks]

ii) Distinguish between hard copy and soft copy with suitable examples [2 Marks]

iii) The student also wanted to play high level interactive games using the computer. Describe the input device the student can use to play games. [2 Marks]

d) Distinguish between the following terms [4 Marks]

i) RAM and ROM

ii) Sorting and filtering