



THE UNIVERSITY OF ZAMBIA
SCHOOL OF NATURAL SCIENCES
DEPARTMENT OF COMPUTER STUDIES
CSC 2101 – INTRODUCTION TO
COMPUTER SYSTEMS

TEST TWO

TIME: 1 HR 30 MIN

INSTRUCTIONS: ANSWER ALL QUESTIONS

28th April 2017

QUESTION ONE

An electronic spreadsheet is analogous to an accountant's ledger sheet. It contains rows and columns for entering character or numeric data.

- a) List and explain *three (3)* scenarios in which you would use spreadsheet software [9]
- b) List and explain *four (4)* terminologies used in spreadsheet software [8]
- c) List and explain *four (4)* advantages of using spreadsheet software [4]
- d) List and explain *four (4)* disadvantages of using spreadsheet software [4]

QUESTION TWO

Presentation software is software that facilitates creation of a series of slides, i.e., a presentation.

- a. List and explain *four (4)* terminologies used in presentation software [4]
- b. Give *five (5)* advantages of using presentation software providing a real life scenario in which this would be applicable [10]
- c. List and explain *two (2)* disadvantages of using presentation software [2]
- d. Give *two (2)* examples of presentation software providing a brief contrast between the two. [4]
- e. List *five (5)* similarities between Microsoft word and Microsoft power point [5]

QUESTION THREE

- a. In the context of information processing, define the following [5]
1. Data
 2. Information
 3. Knowledge
 4. Expert Systems
 5. Information Processing
- b. Write brief notes on the following types of systems, providing day to day examples of their application [20]
1. Transaction Processing Systems
 2. Management Information Systems
 3. Decision Support System
 4. Office Information Systems
- c. Give a scenario in which you would use Access instead of Excel, giving the benefits and downsides of each. [5]

University of Zambia
School of Natural Sciences
Department of Computer Science

CSC2000 Test 2

Duration: 1 hour

Answer all questions.

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Section A [5 marks each question]

1. Which class or interface defines the `wait()`, `notify()` and `notifyAll()` methods?
2. What method must be defined by a class implementing the `java.lang.Runnable` interface?
3. Which method is used to make a main thread to wait for all child threads?
4. Which method is used to check if a thread is running? *getIsAlive()*
5. What method call will directly stop the execution of a Thread?
6. Write code for two types of valid constructors for Thread class.
7. Write the code that is missing.

```
public class ThreadExtended extends Thread {  
    public void run() {  
        System.out.println("\nThread is running  
now\n");  
    }  
    public static void main(String[] args) {  
        //Some code missing....  
        threadE.start();  
    }  
}
```

8. What keyword is used to achieve concurrency in Java threads?
9. What method call is used to identify threads? *setName()*
10. Write a code block to create and start a thread using the class below.

```
public class MyRunnable implements Runnable  
{  
    public void run()  
    {  
        // some code here  
    }  
}
```