

**HILLCREST HIGH SCHOOL**

MAY EXAMS 2010

IT

GRADE 10

EXAMINER: BROOKSPAPER ONE100 Marks

It is a 2 hour paper. Please write neatly and clearly. This paper consists of 4 questions and 4 pages including this page.

**SECTION A: MULTIPLE-CHOICE QUESTIONS (10 Marks – 1 per question)****QUESTION 1**

Various possible options are provided as answers to the following questions. Write only the letter (A-D) next to the question number (1.1-1.10) on the answer sheet provided.

- 1.1 Which one of the following is not a typical example of a hardware device?
- a) Scanner
  - b) Modem
  - c) Search engine
  - d) Flash disk
- 1.2 Which one of the following lists arranges the device in increasing order of Processing Power?
- a) PDA, server, laptop, mainframe
  - b) Laptop, PDA, mainframe, server
  - c) Server, mainframe, PDA, laptop
  - d) PA, laptop, server, mainframe
- 1.3 A UPS is...
- a) Used to provide limited alternative power in the event of a power failure
  - b) Stands for Universal Power Supply
  - c) A type of connector THAN is used for keyboards
  - d) Used to connect two networks
- 1.4 Which one of the following file extensions does not logically belong with the other three options?
- a) .JPG
  - b) .AVI
  - c) .BMP
  - d) .GIF
- 1.5 Which of the following statements about java is false
- a) It is a compiled programming language.
  - b) It is an object oriented language.
  - c) It is named after a type of coffee.
  - d) It is not a case sensitive.

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- 1.6 GUI is an acronym for
- Graphical User Interface
  - Gettable User Input
  - Graphical User Input
  - General User Interface
- 1.7 Which of the following are not examples of operating systems?
- Microsoft Windows XP
  - Ubuntu Linux
  - Mozilla Firefox
  - Mac Osx
- 1.8 Which of the following devices do not fit directly on to the motherboard?
- CPU
  - Graphics card
  - RAM
  - Monitor
- 1.9 Which of the following are not examples of e-communication
- E-mail
  - Forums
  - Television
  - IM
- 1.10 Which of the following are not social network websites?
- www.facebook.com
  - www.myspace.com
  - www.twitter.com
  - www.telkom.co.za

**TOTAL SECTION A: 10**

SECTION B: HARDWARE AND SOFTWARE

QUESTION 2

- 2.1 Name what is arguably the two most important components of a computer! (2)
- 2.2 Differentiate between hardware and software! (4)
- 2.3 Sort the following list into the two headings HARDWARE, and SOFTWARE. (12)
- |                |                      |
|----------------|----------------------|
| Printer        | Monitor              |
| Keyboard       | Internet Explorer    |
| Microsoft Word | Windows Media Player |
| Paint          | USB Port             |
| UPS            | RAM                  |
| Freecell       | MXit                 |
- 2.4 Differentiate between system and application software, giving an example of each! (4)

- 2.5 Give a detailed description of how you would access an application that will allow you to write a letter to a friend and how you would record your letter to a removable storage device for later use! (5)
- 2.6 List any three output devices found with a computer! (3)
- 2.7 Hard drives and CD ROMs are connected to the south bridge. Explain in detail what the south bridge is and why are it is important to the computer. Make mention of any other devices or parts that are involved in the function of the bridge. (4)
- 2.8 Explain the difference between RAM and ROM. (6)

**TOTAL SECTION B: 40**

**SECTION C: E-COMMUNICATIONS AND SOCIAL ETHICS**

**QUESTION 3**

- 3.1 Your father is having a problem with spam on his e-mail account.
- 3.1.1 Explain to him what spam is! (2)
- 3.1.2 Give him three hints on how to cut down on the amount of spam he is receiving. (3)
- 3.2 Can cookies damage your computer? Motivate your answer. (3)
- 3.3 Explain what phishing is and how to protect yourself (3)
- 3.4 Describe how to prevent a computer from being infected by a virus (4)
- 3.5 Social networking has become a way of life. Your grandmother has recently discovered Facebook. Explain to her any dangers she may encounter using Facebook. (6)
- 3.6 Explain the difference is between forums and e-mail. (3)
- 3.7 Your ISP phoned you to say that your account has not been paid. You decide that you really need the service they offer, and thus pay the account. Explain to your neighbour what the service is that an ISP offers. (2)
- 3.8 The school newspaper has decided to go high tech. Instead of using printed media, they would like to go digital. However, the staff in charge of the newspaper, are very old and are not very competent with technology. Thus they are very confused with some of the products available to them. They have heard of blogs, forums, RSS feeds and social networking sites. They however have no clue what they are, and have called upon you to explain to them what they are, with examples. Furthermore, they expect you to make an educated decision as to which e-communication tools are going to work for them! (12)
- 3.9 Cellphones have become a part of everyday life. They include access to the Internet, and many other features, but what has to be the most popular feature is the introduction of cellphone based IM, namely MXit. MXit is considered a very controversial product. Give what you believe could be valid reasons for this controversy, using your knowledge of social ethics and computer usage. (6)

**TOTAL SECTION C: 40**

## SECTION D: JAVA

## QUESTION 4

- 4.1 The following lines of Java code contain an error. Correct the errors.
- 4.1.1 `System.out.println(This line has an error);` (1)
  - 4.1.2 `JOptionPane.showInputDialog("So does this line")` (1)
  - 4.1.3 `integer number = 15;` (1)
  - 4.1.4 `if (number=15){}` (1)
  - 4.1.5 `public void main(String[] args){}` (1)
- 4.2 Explain what the following code achieves, and thus give the method an appropriate name. (5)

```
1. public void methodName()  
2. {  
3.     String input = JOptionPane.showInputDialog("Enter a name");  
4.     int age = Integer.parseInt(JOptionPane.showInputDialog("Enter age of person"));  
5.     int year = Integer.parseInt(JOptionPane.showInputDialog("Enter the current year"));  
6.     String birthday = JOptionPane.showInputDialog("Have they had their birthday this year");  
7.     if (birthday.equals("yes"))  
8.     {  
9.         System.out.println("Their birthday was in " + (year-age));  
10.    }  
11.    Else  
12.    {  
13.        System.out.println("Their birthday was in" + (year-age-1));  
14.    }  
15. }
```

**TOTAL SECTION D: 10**