



**Kulleġġ San Nikola Sekondarja tas-Subien, In-Naxxar**  
**St. Nicholas College Naxxar Boys Secondary**  
**Half-Yearly Examinations**  
**February 2015**

Levels  
5 - 8

FORM: 3

Information and Communication  
Technology

TIME: 1h 30mins

Question	1	2	3	4	5	6	7	<b>Global Mark</b>
<i>Max. Mark</i>	14	12	22	6	10	10	26	100
<b>Mark</b>								

DO NOT WRITE ABOVE THIS LINE

Name: \_\_\_\_\_

Class: \_\_\_\_\_

**Instructions:**

- Read all questions carefully.
- Attempt all questions.
- Write in Black or Blue ink.

**Q1:** This question is about the basic computer system.

A. Underline the correct answer.

- 1) The term CPU is short for what?
  - a. Control Processing Unit.
  - b. Control Product Unit.
  - c. Central Processing Unit.
  - d. Central Product Unit.
  
- 2) The CPU is a \_\_\_\_\_ shaped chip with a lot of pins attached to one side.
  - a. Triangle.
  - b. Square.
  - c. Oval.
  
- 3) Nowadays CPU speed is measured in?
  - a. MegaHertz (MHz).
  - b. Megabytes (MB).
  - c. GigaHertz (GHz).
  - d. Gigabytes (GB).
  
- 4) Every computer has a processor inside it. The better the CPU:
  - a. The faster the Internet connection.
  - b. The faster the computer will execute program instructions.
  - c. The better the sound quality.
  
- 5) Computer programs are stored (*installed*) in:
  - a. The Processor.
  - b. RAM.
  - c. The Hard Disk.
  
- 6) Instructions to power up the computer system are stored in the:
  - a. CPU.
  - b. RAM.
  - c. ROM.
  - d. Hard Disk.
  
- 7) What happens when you instruct the computer to open a program?
  - a. The computer reads the program from the hard disk and loads it in the RAM.
  - b. The program is uninstalled (removed) from the hard disk.
  - c. Another copy of the program is made on your hard disk.

- 8) ROM is known as:
- Volatile memory.
  - Non-Volatile memory.
  - Versatile memory.
- 9) Data in RAM is lost in case of a power failure.
- To avoid data loss save the data on a secondary storage device.
  - Not true! Data in RAM is not lost when the computer is switched off.
  - Save the data in ROM, so it won't be lost.
- 10) The storage capacity of the RAM is in the \_\_\_\_\_ range.
- Kilobytes.
  - Megabytes.
  - Gigabytes.

(10 marks)

B. Write the following in full:

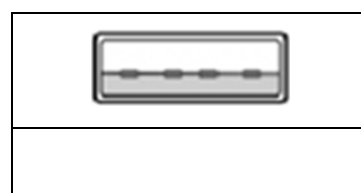
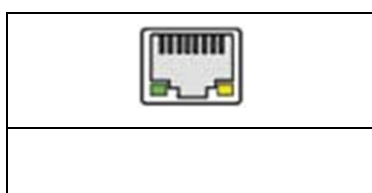
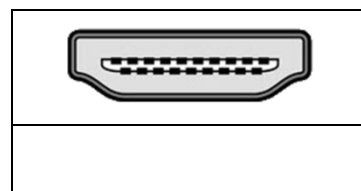
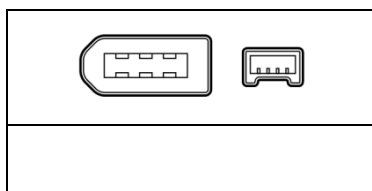
ROM	
RAM	

(4 marks)

**Q2:** This question is about input / output ports and cables.

A. Label correctly the following ports.

<b>HDMI</b>	<b>USB</b>	<b>Network</b>	<b>Firewire</b>
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(4 marks)

B. Name the cable you would use:

1. To transfer high definition video and audio to an external monitor or TV set \_\_\_\_\_.
2. To transfer data between digital video cameras and a MacBook (computer manufactured by Apple) \_\_\_\_\_.
3. To connect to a modem or a router \_\_\_\_\_.
4. To connect devices such as digital cameras, printers, scanners, keyboards and mice \_\_\_\_\_.

(4 marks)

C. Write the full name of:

1. **U** \_\_\_\_\_ **S** \_\_\_\_\_ **B** \_\_\_\_\_
2. **H** \_\_\_\_\_ **D** \_\_\_\_\_ **M** \_\_\_\_\_ **I** \_\_\_\_\_

(4 marks)

**Q3:** This question is about Storage.

A. Name the following storage devices and media.



(4 marks)

B. Write the words below next to their description in the provided space:

External Hard Disk	DVD	Blue-Ray Disc	CD
Internal Hard Disk	Memory Card	Online File Storage	Network Drive

1.	A typical disk on a network which is shared amongst several authorised users.	
2.	A portable device used to store data files. This has a storage capacity of approximately 700MB. It is used to store movies, multimedia games and interactive content.	
3.	This is used to store digital data and is typically used with digital cameras, smartphones, etc.	
4.	Data files stored on the Internet and that can be easily accessed from any computer connected to the Internet.	
5.	It is found inside the computer. It contains all the program folders and files. This can hold large amounts of data.	
6.	Developed for recording and playing high definition (HD) video and for storing large amounts of data. Can hold between 25GB to 50GB of data.	
7.	Similar to a CD but with a larger storage capacity. Storage capabilities which range from 4.7GB to 17GB.	
8.	Large storage capacity, but instead of being found inside the computer, it is attached to the computer using a USB cable. In this way it is portable!	

(8 marks)

C. Write the units of storage in the correct order starting from the **largest** to the **smallest** unit.

<b>Kilobytes</b>	<b>Bits</b>	<b>Terabytes</b>	<b>Gigabytes</b>	<b>Bytes</b>	<b>Megabytes</b>
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	<b>Largest</b>
	<b>Smallest</b>

(6 marks)

D. Underline the correct answer.

1) CD is short for:

- a. Circle Disc.
- b. Compact Disc.
- c. Computer Disc.

2) DVD is short for:

- a. Digital Valuable Disc.
- b. Digital Virtual Disc.
- c. Digital Versatile Disc.

3) A Megabyte is equal to:

- a. 1000 Kilobytes.
- b. 1000 Gigabytes.
- c. 1024 Kilobytes.
- d. 1024 Gigabytes.

4) To convert Gigabytes to Terabytes one must:

- a. Add.
- b. Subtract.
- c. Multiply.
- d. Divide.

(4 marks)

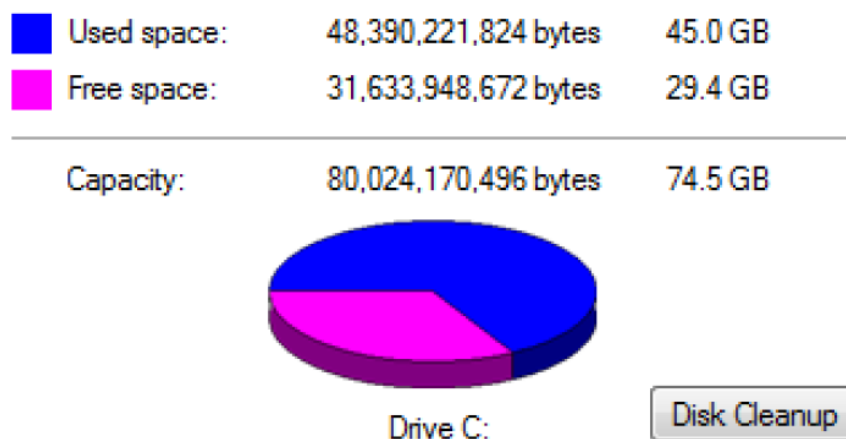
**Q4:** This question is about managing a hard disk.

A. Put the following steps in order, using numbers 1 to 4, to view the remaining space on a hard disk:

Right click on the hard disk.	
Check 'Free Space' to get to know the available space on the hard disk.	
Locate the hard disk in computer window.	
Click Properties. The properties dialog box is displayed.	

(4 marks)

B. Using the image below complete the following statements:



1. There is \_\_\_\_\_ GB of data stored on the drive.
2. On the drive there is \_\_\_\_\_ GB of free space.

(2 marks)

**Q5:** This question is about file compression.

A. Fill in the blanks using the following:

<b>.zip</b>	<b>WinRAR</b>	<b>storage space</b>
<b>file compression</b>	<b>transferred</b>	<b>WinZip</b>

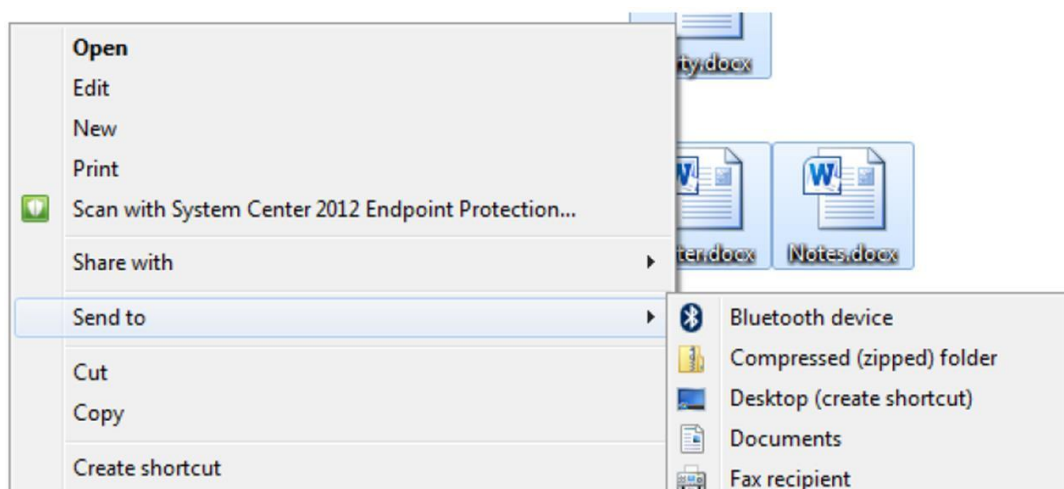
1. \_\_\_\_\_ is the process of reducing the size of the data file to the smallest size possible.

2. Compressed files can take less \_\_\_\_\_ and can be \_\_\_\_\_ to other computers more quickly than uncompressed files.
3. Typically compressed files are organised in a folder ending with the extension \_\_\_\_\_.
4. \_\_\_\_\_ and \_\_\_\_\_ are two examples of file compression software.

(6 marks)

B. Write four simple steps to compress multiple files as shown in the image below:

- Step 1: \_\_\_\_\_.
- Step 2: \_\_\_\_\_.
- Step 3: \_\_\_\_\_.
- Step 4: \_\_\_\_\_.



(4 marks)

**Q6:** This question is about malware.

A. Explain what **Malware** is.

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(2 marks)



B. Match these common malware types to the appropriate statements.

A	Adware	Software that scans for computer networks and security holes to replicate itself.
B	Worm	A software package which automatically plays, displays, or downloads advertisements.
C	Spyware	A small piece of software that piggybacks on real programs.
D	Trojan Horse	Software that collects personal information about users without their informed consent.
E	Virus	A program that claims to do one thing but instead does damage when you run it.

(5 marks)

C. Write three precautions one should take against malware.

1

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2

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3

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(3 marks)

**Q7:** This question is about PowerPoint.

A. Label correctly the slide layouts using the following:

<b>Section Header</b>	<b>Title Only</b>	<b>Comparison</b>
<b>Picture with Caption</b>	<b>Title Slide</b>	<b>Content with Caption</b>
<b>Title and Content</b>	<b>Two Content</b>	<b>Blank</b>



**1**



**2**



**3**



**4**



**5**



**6**



**7**



**8**



**9**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

*(9 marks)*

B. Kim is preparing the following PowerPoint Presentation for her Geography lesson.

**Malta Weather**

Date	Wind speed	UV index
14/2/2013	3-4	7
15/2/2013	4	6
16/2/2013	5	5
17/2/2013	3-5	6

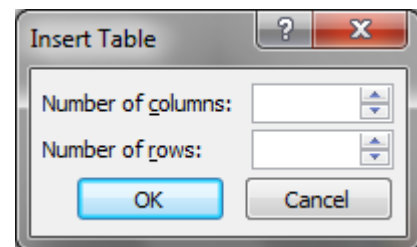
0-2 Low danger from the sun's UV rays for the average person.  
3-5 Moderate risk of harm from unprotected sun exposure.  
6-7 High risk of harm from unprotected sun exposure.  
8-10 Very high risk of harm from unprotected sun exposure.

When she clicked on New Slide, a new slide appeared with the following set of icons:

1. Draw a circle around the icon she should click on to **insert a table**.



2. The following **Insert Table** dialog box is displayed. In the dialog box, write the number of Columns and Rows that Kim inserted.



(3 marks)



C. Kim would like to insert a new column for the Temperature, between Date and Wind speed. She was reading her school notes and found the following instructions. Underline the correct word from the words in the brackets, to complete the sentence.

To insert a column:

1. Click in the (row, table, column).
2. Under Table (Tools, Format, Layout), click the (Insert, Layout, Format) tab.
3. In the (Rows, Tables, Borders) and Columns group, click Insert (Left, Centre, Justify) or Insert Right.

(5 marks)

D. Write **True** or **False**:

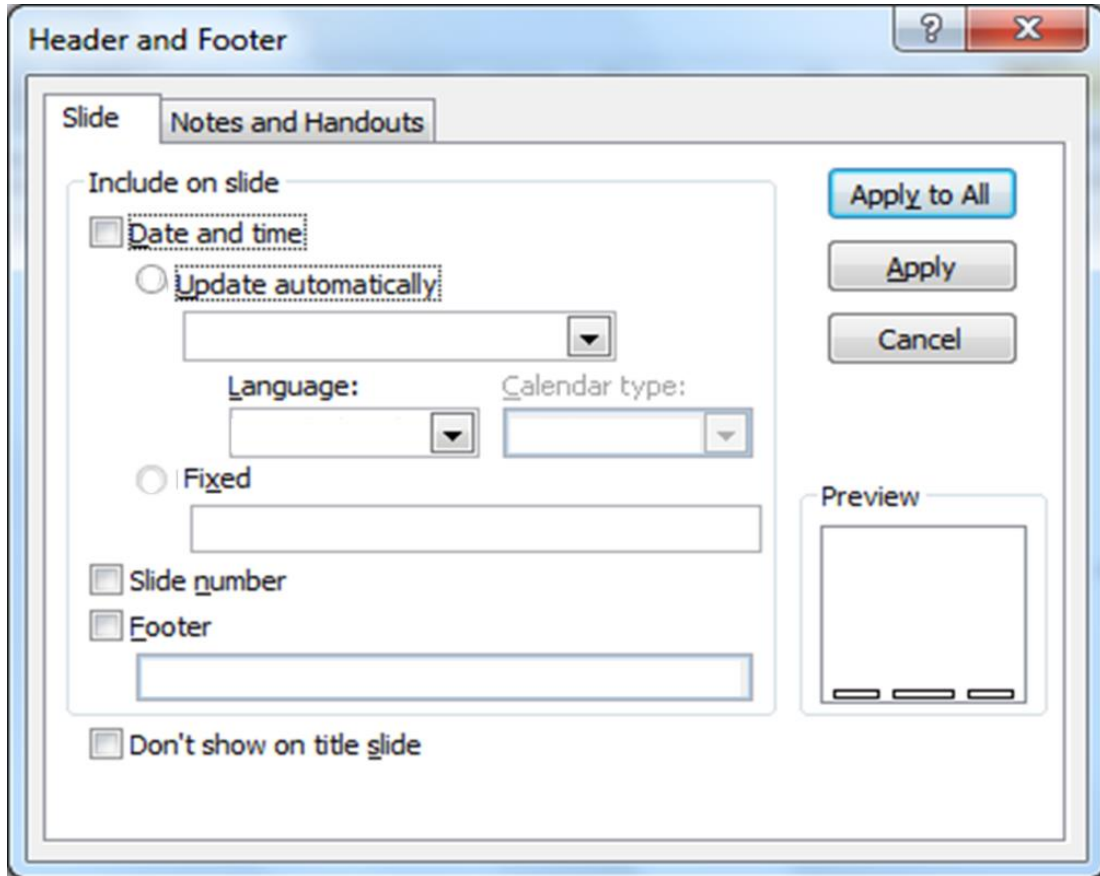
1.	To modify the column width, rest the pointer on the column boundary you want to move until it becomes  and drag the boundary to the left or right until the column is at the width you want.	
2.	To modify the row height, rest the pointer on the row boundary you want to move until it becomes  and drag the boundary up or down until the row is at the height you want.	
3.	To modify the column width and row height to specific measurements, you must click the Layout tab under Table Tools.	

(3 marks)

E. Kim needs to write the information below in the Headers and Footers of all slides.

- A Fixed date: 13/03/2015
- A Footer: K. Borg
- Slide numbers on all slides except the first slide.

**Tick** and **Fill** the image on the next page as appropriate.



(6 marks)

**End of Exam Paper**