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**UACE S850 Subsidiary Information and communication technology (ICT) Paper 1 2016**

**2 ½ hour**

**Answer all questions**

1. In the modern world every person is endeavoring to access to information. Give five reasons why students in secondary schools should not be allowed to have mobile phones

- (i) .....
- (ii) .....
- (iii) .....
- (iv) .....
- (v) .....

2. (a) Explain the importance of servicing and maintenance of computers (02 marks)

.....  
.....  
.....

(b) Suggest any **three** activities involved in servicing and maintenance of computers.

(03marks)

- (i) .....
- (ii) .....
- (iii) .....

3. Use the image below to answer the questions that follow:



(a) Write down the path for subfolder called **My videos**. (03marks)

.....  
.....  
.....

(b) Describe a method you can use to recover accidentally deleted folder from the desktop. (02 marks)

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.....  
.....

4. Describe the following terms as used in Information and Communication Technology (ICT) (05marks)

(i) System unit .....

.....

(ii) RAM chip.....

.....

(iii) Power supply .....

.....

(iv) BUS .....

.....

(v) Peripheral devices .....

.....

5. (a) Define the term **file extension**. (02marks)

.....  
.....  
.....

(b) fill in the right file extensions for the following files. (03 marks)

- (i) Audio file .....
- (ii) Word document .....
- (iii) Presentation document .....

6. (a) What is output device? (01 marks)

.....  
.....

(b) Give two categories of printers and an example in each case:

- (i) Category .....
- Example ..... (02marks)
- (ii) Category .....
- Example ..... (02marks)

7 (a) Distinguish between system and application software (02marks)

.....  
.....  
.....  
.....

(b) Give three types of language translators used in programming (03marks)

- (i) .....
- (ii) .....
- (iii) .....

8. (a) Differentiate between computer hardware and computer software

.....  
.....  
.....  
.....  
.....

(b) Storage devices is one of the categories of computer hardware.

List the other three categories (03marks)

- (i) .....
- (ii) .....
- (iii) .....

9. Indicate TRUE or FALSE against each statement in the table below

	STATEMENTS	TRUE/FALSE
(a)	Public domain software is copyrighted	
(b)	Off-the-self software is developed and sold for profit	
(c)	Source codes of open source software programs are only available to paid up subscribers.	
(d)	Shared programs are widely available from variety of download sites on internet.	
(e)	Freeware programs are frequently developed by only amateur programmers	

10. (a) Define the term motherboard. (02marks)

.....  
.....  
.....

(b) Identify any three components housed on them motherboard (03 marks)

- (i) .....
- (ii) .....
- (iii) .....

11. (a) Define the following terms as used in publication

(i) Frame (01vmark)

.....  
.....

(ii)Template (01 mark)

.....  
.....

(b) List any two desktop publication software. (02 marks)

(i) .....

(ii) .....

(c) Name a document that can be produced using a publication software (01 mark)

.....

12. Complete the table below (05marks)

	Application	Purpose
(a)	Word processing	A word processor is a device or software program that <b>lets users create, edit, print, and save text documents.</b>
(b)	Spreadsheet software	Used to organize data in rows and column and also performs calculations
(c)	Database Management systems	<b>Manage vast amounts of data.</b>
(d)	Desktop publishing software	Generating page layouts and producing text and image content for News, brochures, for flayers
(e)	Presentation software	Used to combine text, graphics, animations, audio and video

13. Computer data and software are exposed to number of risks hence need for great care and protection. Suggest **five** ways of protecting data and software (05 marks)

(i) .....

.....

(ii) .....

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(iii) .....

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(iv) .....

.....

(v) .....

.....

14. (a) Give three benefits of sending documents using email service. (03 marks)

- (i) .....
- .....
- (ii) .....
- .....
- (iii) .....
- .....

(b) State two benefits for sending documents using ordinary post? (02 mark)

- (i) .....
- .....
- (ii) .....
- .....

15. Use the terms to complete the statements that follow: (05marks)

Virtual Reality, WIFI, Simulation, Bluetooth, Artificial intelligence

- (a) The science of representing behavior of real life situation using a computerized mode is .....
- (b) The technology that allows an electronic device to exchange data using radio waves of a computer network is .....
- (c) The technology that allows users to transfer data for short distances between mobile devices is .....
- (d) The technique that rates images by a computer that appears to surround the person looking at them is .....
- (e) The science of computers that enable qualities of human being to be imitated is .....

16. (a) Distinguish between a hyperlink and home page (02 marks)

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.....

(b) Identify three netiquette guidelines while using the internet. (03marks)

- (i) .....
- .....
- (ii) .....
- .....

.....  
(iii) .....  
.....

17. (a) Give two wireless transmission media

(i) .....  
(ii) .....

(b) Identify three limitations of wireless transmission media. (03marks)

(i) .....  
.....  
(ii) .....  
.....  
(iii) .....  
.....

18. Choose the correct terms to complete the statements (a) – (e). (05marks)

Rename, Watermark, Bookmark, marge, Pointer, cursor, indent

- (a) A background feature in a document is referred to as .....
- (b) The feature that allows duplication of a document with unique address is .....
- (c) The feature that starts a line of text further from the margin is .....
- (d) The feature that assigns a name to a specific point in a document is called .....
- (e) A symbol on the screen that indicated an insertion point in a document is .....

19. Explain each of the following terms as used in information and communication Technology:  
(05marks)

(i) Communication  
.....  
.....

(ii) Network  
.....  
.....

(iii) Protocol  
.....  
.....

(iv) Modern  
.....

.....  
(v) Bandwidth  
.....  
.....

20. Outline five uses of internet in an organization (05 marks)

- (i) .....
- (ii) .....
- (iii) .....
- (iv) .....
- (v) .....



## Suggested answers

2. In the modern world every person is endeavoring to access to information. Give five reasons why students in secondary schools should not be allowed to have mobile phones

- Poor time management when excess time is spent on the internet
- High cost of data
- Inaccurate information
- Exposure to pornography leading to early sex and unplanned pregnancy
- May contract gambling habits
- Information overload

2. (a) Explain the importance of servicing and maintenance of computers (02 marks)

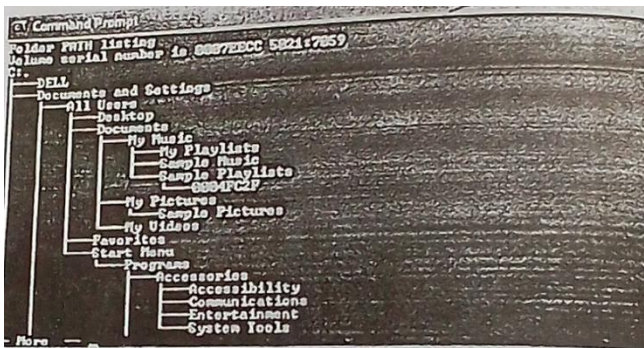
- To ensure the computer is clean
- Enhanced performance: Regular maintenance ensures your computer runs optimally.
- Increased reliability: Prevents issues and reduces downtime.
- Improved security: Helps protect against viruses and malware.
- Data protection: Regular backups and updates safeguard your data.
- Longer lifespan: Proper maintenance extends the life of your computer.

(b) Suggest any **three** activities involved in servicing and maintenance of computers.

(03marks)

- Cleaning
- Updating software
- Uninstall programs and applications you no longer use.
- Shutdown your computer over the weekends or when they are unattended for extended periods.
- Perform a regular backup of any files you do not want to loose
- Regular antivirus scanning

3. Use the image below to answer the questions that follow:



(a) Write down the path for subfolder called **My videos**. (03marks)

C:\documents and settings\All Users\documents\My videos

(b) Describe a method you can use to recover accidentally deleted folder from the desktop. (02 marks)

- **Method 1:** Check the Recycle Bin and click the folder to restore
- **Method 2:** Try Restoring from a previous version of the Folder
- **Method 3:** Use a Backup to Retrieve a Deleted Folder
- **Method 4:** Undo Deletion with Ctrl + Z
- **Method 5:** Recover a Deleted Folder Using Data Recovery Software

4. Describe the following terms as used in Information and Communication Technology (ICT) (05marks)

- (i) System unit is a **case containing all the main parts of a computer, also known as a box, main unit, or system box.**
- (ii) RAM chip is a **small electronic device that stores data temporarily on a circuit board.**
- (iii) Power supply is **an electrical device that supplies electric power to a computer.**
- (iv) BUS is a **communication system within a computer or between computers that transfers data between different components.**
- (v) Peripheral devices is a **device that either enters information into a computer system or receives information from the computer system**

5. (a) Define the term **file extension**. (02marks)

A file extension is the character or group of characters after the period that makes up an entire file name

(b) Fill in the right file extensions for the following files. (03 marks)

(i) **Audio file are**

**PCM** (Pulse-Code Modulation)

WAV (Waveform Audio File Format)

MP3 (MPEG-1 Audio Layer 3)

**AAC** (Advanced Audio Coding)

**WMA** (Windows Media Audio)

FLAC (Free Lossless Audio Codec)

(ii) Word document is **docx**

(iii) Presentation document is **PPTX**

6. (a) What is output device? (01 marks)

An output device is a hardware component of a computer system that displays information to users.

(b) Give two categories of printers and an example in each case:

- Impact printer e.g. dot matrix, plotters
- Non-impact printers e.g. laser printers, Ink-jet printers, thermal printers

7 (a) Distinguish between system and application software (02marks)

System software is a program that control and manage the operations of computer such as interaction between hardware and application software

Application Software is a program that is created to perform a specific task for a user.

(b) Give three types of language translators used in programming (03marks)

Assemblers  
compilers  
interpreters

8. (a) Differentiate between computer hardware and computer software

Computer hardware are a physical parts of a computer such as internal pieces and connected devices.

Computer software is group of programs or sets of instructions or commands that tell a computer what to do.

(b) Storage devices is one of the categories of computer hardware.

List the other three categories (03marks)

- Processing units
- Input devices
- Output devices

9. Indicate TRUE or FALSE against each statement in the table below

	STATEMENTS	TRUE/FALSE
(a)	Public domain software is copyrighted	FALSE
(b)	Off-the-self software is developed and sold for profit	TRUE
(c)	Source codes of open source software programs are only available to paid up subscribers.	TRUE
(d)	Shared programs are widely available from variety of download sites on internet.	TRUE
(e)	Freeware programs are frequently developed by only amateur programmers	FALSE actually freeware are complex software

10. (a) Define the term motherboard. (02marks)

A motherboard is a printed circuit board (PCB) that connects all components of a general-purpose computer

(b) Identify any three components housed on them motherboard (03 marks)

- CPU (Central Processing Unit) chip
- RAM (Random Access memory) slots
- BIOS (Basic Input/Output System)
- cooling fans
- I/O port
- Power supply connector
- USB (Universal Serial Bus)
- CPU slot
- Mouse and keyboard ports
- FDC (Floppy-Disk Controller)
- CMOS (Complementary Metal-oxide-semiconductor) battery
- DIP (Dual In-line Package) switch
- Jumper
- Clock generator

11. (a) Define the following terms as used in publication

(i) Frame (01 mark)

**A frame is rectangular spaces where you can place text, images, or other elements.**

(ii) Template (01 mark)

A template is a **file that serves as a starting point for a new document**.

(b) List any two desktop publication software. (02 marks)

Microsoft Publisher, Adobe FrameMaker, Adobe PageMaker, Adobe InDesign, CorelDraw, PageStream, and QuarkXPress.

(c) Name a document that can be produced using publication software (01 mark)

Newspapers, e-books, magazines, blogs, online publications, brochures

12. Complete the table below (05marks)

	Application	Purpose
(a)	Word processing	
(b)		Used to organize data in rows and column and also performs calculations
(c)	Database Management systems	
(d)	Desktop publishing software	
(e)		Used to combine text, graphics, animations, audio and video

13. Computer data and software are exposed to number of risks hence need for great care and protection. Suggest **five** ways of protecting data and software (05 marks)

- Install antivirus software
- Create strong passwords to every document
- Use firewalls to block unauthorized access to the network
- Implement strict access control to sensitive information
- Regular Backups to store data in multiple location
- Encrypt Data to protect it from unauthorized access
- Use VPN
- Train users about cyber security and to recognize phishing attempts and other social engineering attacks.
- Monitor Network activity using intrusion detection systems (IDS)
- Update and patch system to fix vulnerabilities that could be exploited by attackers
- Develop a comprehensive security policy that covers aspects of network security and data handling.

14. (a) Give three benefits of sending documents using email service. (03 marks)

- Instant/faster communication
- Easy file sharing and collaboration
- Reduce postage costs
- It is environmentally friendly
- Convenient: letters are created and sent from anywhere.
- Improve document security.
- Mails can be sent and receive simultaneously to multitude of recipients at ago.
- Allows for a high degree of customization, enabling businesses to tailor their communications to specific needs.

(b) State two benefits for sending documents using ordinary post? (02 mark)

- It tangible creating stronger impression
- Carry physical parcels that e-mail can't
- Proof of existence of receiver and residence
- Post office are not prone to hacking
- Personal touch: Handwritten letter or cards carry a sentimental value that email can't replicate

15. Use the terms to complete the statements that follow: (05marks)

Virtual Reality, WIFI, Simulation, Bluetooth, Artificial intelligence

- (a) The science of representing behavior of real life situation using a computerized mode is **simulation**.
- (b) The technology that allows an electronic device to exchange data using radio waves of a computer network is **WIFI**
- (c) The technology that allows users to transfer data for short distances between mobile devices is **Bluetooth**
- (d) The technique that rates images by a computer that appears to surround the person looking at them is **Virtual reality**
- (e) The science of computers that enable qualities of human being to be imitated is **Artificial intelligence**

16. (a) Distinguish between a hyperlink and home page (02 marks)

**Hyperlink** is a group of words, shape, or image, when clicked allows movement between documents, presentation slides or redirects computer user to a specified URL.

A **home page** is a webpage that serves as the starting point of website.

(b) Identify three netiquette guidelines while using the internet. (03marks)

- empathy
- use friendly tone
- use respectful language

- Send messages if appropriate
- Check for grammar mistakes
- Respect people's privacy
- Respond to e-mails on time
- Create clear and accurate posts

17. (a) Give two wireless transmission media

- Radio waves e.g. Bluetooth,
- Microwaves e.g. satellites, radars
- Infrared

(b) Identify three limitations of wireless transmission media. (03marks)

- Transmission speed is comparably less.
- it has a limited amount of bandwidth for communication
- As communication is done through open space, it is less secure.
- More open to interference.
- Has high chance of jamming.
- Unreliability
- Wireless networks can be easily hacked.

18. Choose the correct terms to complete the statements (a) – (e). (05marks)

Rename, Watermark, Bookmark, marge, Pointer, cursor, indent

- (a) A background feature in a document is referred to as **Watermark**
- (b) The feature that allows duplication of a document with unique address is **Rename**
- (c) The feature that starts a line of text further from the margin is **indent**
- (d) The feature that assigns a name to a specific point in a document is called **Bookmark**
- (e) A symbol on the screen that indicated an insertion point in a document is **cursor**

19. Explain each of the following terms as used in information and communication Technology: (05marks)

(i) Communication

Communication in ICT refer to the tools used to send, receive and process information

(ii) Network

A network is a connection of at least two computers either by cable or wireless connection.

(iii) Protocol

A **protocol in ICT** is a standard set of rules that allow electronic devices to communicate with each other.

(iv) Modem

A **modem** is a hardware component that allows a computer or another device to connect to the computer.

(v) Bandwidth

**Bandwidth** is the amount of information that something, like a connection to the internet, can handle at a given time.

20. Outline five uses of internet in an organization (05 marks)

- Online Businesses (E-commerce)
- E-marketing
- Cashless Transactions
- Education
- Social Networking
- Entertainment

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Thanks

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