

G9 ECZ COMPUTER STUDIES 2014 SPECIMEN PAPER 1 SOLUTIONS

Grade 9 ECZ Computer Studies 2014 Paper 1 (402/1) Specimen

1 hour 30 minutes | Section A (MCQ), B (fill-in), C (structured)

The full question paper appears first -- worked answers follow.

Preamble

Computer Studies (402/1, 2)

The Examinations Council of Zambia has developed specimen papers for Computer Studies at Grade 9 level in line with the revised Junior Secondary School curriculum of 2013 developed by Curriculum Development Centre (CDC) of the Ministry of Education, Science, Vocational Training and Early Education (MESVTEE).

The purpose of the specimen papers is to guide the teachers and would be candidates on the design and content of the Grade 9 Computer Studies examination which will begin to be administered in 2015 examination session.

Assessment Objectives

The purpose of the Grade 9 Computer Studies examination is to test candidates' ability to perform basic application functions of a computer and their understanding of the general theory behind the computer systems and associated hardware devices and their use in everyday life.

The Grade 9 examination will assess candidates' performance against the following four (4) Assessment Objectives.

- 1 Knowledge and Understanding of computer systems.
- 2 Practical abilities
- 3 Analytical skills of interpreting data from various productivity tools.
- 4 Synthesis and evaluation skills of using a computer in designing or revising a given situation.

Test Design

The Grade 9 examination will consist of two papers; Computer Studies Paper 1 Theory (402/1) and Computer Studies Paper 2 (402/2) Practical. The number of questions and weighting is summarised below;

Component	Paper Type	No. of Questions	Weighting	Time Allowance
402/1	Theory	34	60%	1 hour 30 minutes
402/2	Practical	2	40%	1 hour 30 minutes
Total			100%	

Equipment

Candidates will be required to answer questions in Computer Studies Paper 2 (402/2) using a computer that has Microsoft Office 2007 or Microsoft Office 2010 or higher. The minimum operating system will be assumed to be any version of Windows 7. Individual work done by candidates will be printed on hard copy and work for all candidates will be saved on one non-re-writable Compact Disk (CD) to be submitted for marking.



EXAMINATIONS COUNCIL OF ZAMBIA
JUNIOR SECONDARY SCHOOL LEAVING EXAMINATION (GRADE 9) - 2014

COMPUTER STUDIES 402/1
PAPER 1
(SPECIMEN)

(INTERNAL & EXTERNAL CANDIDATES)

TIME: ONE AND HALF HOURS (1½)

MARK: 60

INSTRUCTIONS TO CANDIDATES

- 1 Pull out the **Answer Booklet** from the question paper.
- 2 Write your name, examination number and school/centre name on the **Answer Booklet**.
- 3 There are **three (3)** sections in this question paper, Section **A, B** and **C**.
- 4 Answer all the questions in all **three (3)** sections. Write all your answers in the **Answer Booklet** provided.
- 5 In Section **A**, for each question, **four (4)** suggested answers are given **A, B, C** and **D**. Choose the best answer and show it in the **Answer Booklet** by marking it with a cross (**X**).

For example if the answer is **D**

A	B	C	D
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INFORMATION FOR CANDIDATES

Cell phones are not allowed in the examination room.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

Section A [15 marks]

- 1 A computer is . . .
 - A an electronic machine found in an office.
 - B an electronic device which is useful.
 - C an electronic device used to input, process, output and store data.
 - D An electronic machine which is more intelligent than a human being.
- 2 Which of the following is **not** an output device?
 - A Monitor
 - B Printer
 - C Projector
 - D Scanner
- 3 Repetitive Strain Injury (RSI) can be increased by the use of a . . .
 - A digital camera.
 - B keyboard.
 - C modem.
 - D printer.
- 4 Why is it important to install antivirus software on a computer?
 - A To protect computers from thieves
 - B To protect user's information from unauthorised people
 - C To protect computers from malicious programs which may delete or change information.
 - D To protect computers from being damaged due to power failure.
- 5 . . . is equal to 1 024 kilobytes.
 - A Bit
 - B Gigabyte
 - C Megabyte
 - D Terabyte
- 6 Which of the following terms describe the physical parts of a computer?
 - A Software
 - B Malware
 - C Hardware
 - D Discware
- 7 . . . is a computer presentation that combines text, sound, animations, video and graphics.
 - A Composite
 - B Compound
 - C Multimedia
 - D Multimix

- 8 Why is it important to use an Uninterruptible Power Supply (UPS) on a computer?
 - A It makes the computer fast
 - B It backs up files
 - C It allows for saving of important work when there is a power failure
 - D It allows for deleting of unnecessary files and folders.
- 9 ROM stands for . . .
 - A Reading Of Memory.
 - B Read Only Memory.
 - C Reading Over Memory.
 - D Read On Memory.
- 10 A . . . is a device that can be used for both input and output.
 - A touch screen
 - B mouse
 - C keyboard
 - D joystick
- 11 A software that can be downloaded without paying for it is called . . .
 - A freeware.
 - B open source.
 - C proprietary.
 - D shareware.
- 12 How can a computer user put a picture on the Internet?
 - A Uploading
 - B Surfing
 - C Downloading
 - D Browsing
- 13 A grade 8 pupil accidentally deleted a file on a computer. Where can it be restored from?
 - A Task bar
 - B Recycle bin
 - C My document
 - D Menu bar
- 14 Which of the following is the correct order of moving a sentence from one position to another in a document?
 - A Copy and paste
 - B Cut and paste
 - C Paste and copy
 - D Paste and cut
- 15 . . . is a device used to mark shaded multiple choice answers on answer cards.
 - A Barcode Reader
 - B Magnetic Mark Reader
 - C Magnetic Ink Mark Reader
 - D Optical Mark Reader

SECTION B [20 MARKS]

There are fifteen (15) questions in this section.

Answer all the questions in this section by using one word or a short phrase.

Write all your answers in the Answer Booklet provided.

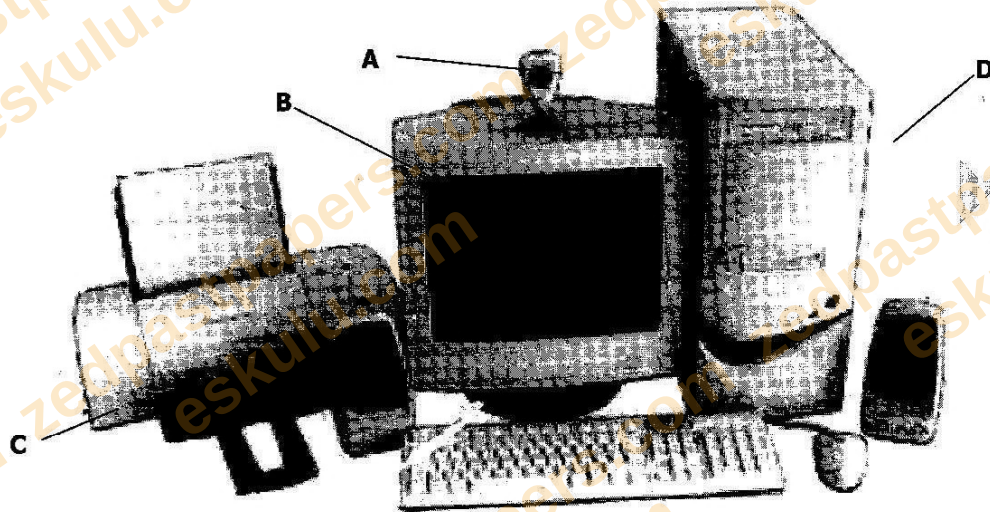
16. A . . . is an input device that can be used to input sound into a computer. [1]
17. To increase space on a computer, unwanted files and folders must be . . . [1]
18. If a computer is becoming very slow, it may be . . . [1]
19. . . . and Digital Versatile Disks (DVDs) are called optical media because . . . is used to read data from them. [2]
20. Two devices that can produce softcopy output are . . . and . . . [2]
21. The buying and selling of goods and services through the internet is called . . . [1]
22. The box where data is entered in a spreadsheet is called a . . . [1]
23. . . . makes a presentation graphic to be moving when played. [1]
24. . . . is the term used to refer to the process of starting up a computer. [1]
25. The type of software that is used to handle specific tasks on a computer is called . . . [1]
26. . . . is the connecting of two or more computers so that they are able to . . . data, information and resources. [2]
27. Random Access Memory (RAM) can lose its . . . when power is switched off because it is . . . [2]
28. Two devices that can be used to connect a computer to the internet are . . . and . . . [2]
29. It is important to . . . work in order to prevent loss of data when working on a computer. [1]
30. A printed page can be electronically transmitted from one office to another by . . . [1]

SECTION C [25 MARKS]

There are four (4) questions in this section.

Answer all the questions in the Answer Booklet provided.

31. Study the diagram of a computer system below.



- (a) Explain briefly how the device labelled A can be used on the computer system. [2]
- (b) Give the type of outputs that are produced by device B and device C. [2]
- (c) If part D is not responding to commands, explain two ways of resolving this problem. [2]

- 32. (a) State **two** differences between a Local Area Network (LAN) and a Wide Area Network (WAN). [2]
- (b) Give **two** advantages that a wireless network has over a wired network. [2]
- (c) Give **two** reasons why it is advisable to avoid downloading any free software from the internet? [2]
- (d) What program in an internet browser is used to search for information? [1]
- (e) Why is downloading of information from a website sometimes slow? [1]

33. The diagram below shows a log-in screen on a network. To gain access to the network the user ID and password must be entered.

User ID*	
Password*	
Log on	
Log on problems? Get support	

- (a) What is a password? [2]
- (b) What would happen if a wrong password is entered more than the maximum number of times allowed? [1]
- (c) Why is it **not** a good idea to keep using the same password for a long time? [1]
- (d) Give **two** physical ways of protecting computer systems. [2]
34. (a) Give **two** negative social effects of using computers. [2]
- (b) Use of computers can lead to a number of health problems.
State **one** way of preventing each of the following:-
- (i) Backache, [1]
- (ii) Eyestrain, [1]
- (iii) Electric shock. [1]



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Question 1. A computer is... (A) an electronic machine found in an office. (B) an electronic device which is useful. (C) an electronic device used to input, process, output and store data. (D) an electronic machine which is more intelligent than a human being.

Answer: C -- a computer is defined by its ability to input, process, output and store data

Question 2. Which of the following is not an output device? (A) Monitor (B) Printer (C) Projector (D) Scanner

Answer: D -- a scanner is an INPUT device (it captures/reads images or text into the computer); the other three all display or print out results

Question 3. Repetitive Strain Injury (RSI) can be increased by the use of a... (A) digital camera. (B) keyboard. (C) modem. (D) printer.

Answer: B -- repeated typing on a keyboard (or repetitive mouse use) is the classic cause of RSI

Question 4. Why is it important to install antivirus software on a computer? (A) To protect computers from thieves (B) To protect user's information from unauthorised people (C) To protect computers from malicious programs which may delete or change information (D) To protect computers from being damaged due to power failure

Answer: C -- antivirus software specifically detects and removes malicious programs (viruses/malware) that could delete or corrupt data

Question 5. ... is equal to 1 024 kilobytes. (A) Bit (B) Gigabyte (C) Megabyte (D) Terabyte

Answer: C -- 1 024 kilobytes = 1 megabyte

Question 6. Which of the following terms describe the physical parts of a computer? (A) Software (B) Malware (C) Hardware (D) Discware

Answer: C -- Hardware refers to the physical, touchable parts of a computer; the others are types of software or not real terms

Question 7. ... is a computer presentation that combines text, sound, animations, video and graphics. (A) Composite (B) Compound (C) Multimedia (D) Multimix

Answer: C -- Multimedia is the term for content combining multiple media types (text, sound, video, graphics, animation)

Question 8. Why is it important to use an Uninterruptible Power Supply (UPS) on a computer? (A) It makes the computer fast (B) It backs up files (C) It allows for saving of important work when there is a power failure (D) It allows for deleting of unnecessary files and folders

Answer: C -- a UPS supplies temporary battery power during an outage, giving the user time to save their work and shut down safely

Question 9. ROM stands for... (A) Reading Of Memory. (B) Read Only Memory. (C) Reading Over Memory. (D) Read On Memory.

Answer: B -- ROM = Read Only Memory

Question 10. A... is a device that can be used for both input and output. (A) touch screen (B) mouse (C) keyboard (D) joystick

Answer: A -- a touch screen displays output but also accepts touch input, making it both an input and an output device

Question 11. A software that can be downloaded without paying for it is called... (A) freeware. (B) open source. (C) proprietary. (D) shareware.

Answer: A -- freeware is software that is free to download and use (open source refers to publicly-editable source code, not necessarily free; shareware is typically free only for a trial period)

Question 12. How can a computer user put a picture on the Internet? (A) Uploading (B) Surfing (C) Downloading (D) Browsing

Answer: A -- uploading is the process of sending/publishing a file such as a picture from your computer onto the internet

Question 13. A grade 8 pupil accidentally deleted a file on a computer. Where can it be restored from? (A) Task bar (B) Recycle bin (C) My document (D) Menu bar

Answer: B -- deleted files are moved to the Recycle Bin, from where they can be restored

Question 14. Which of the following is the correct order of moving a sentence from one position to another in a document? (A) Copy and paste (B) Cut and paste (C) Paste and copy (D) Paste and cut

Answer: B -- to MOVE text, you Cut it (removing it from its original place) and then Paste it in the new position; Copy and paste would duplicate it instead of moving it

Question 15. ... is a device used to mark shaded multiple choice answers on answer cards. (A) Barcode Reader (B) Magnetic Mark Reader (C) Magnetic Ink Mark Reader (D) Optical Mark Reader

Answer: D -- an Optical Mark Reader (OMR) detects shaded/marked positions on a form such as a multiple-choice answer card

Question 16. A... is an input device that can be used to input sound into a computer.

Answer: A microphone

Question 17. To increase space on a computer, unwanted files and folders must be...

Answer: deleted (removed/uninstalled)

Question 18. If a computer is becoming very slow, it may be...

Answer: infected with a virus (or overloaded with too many unwanted files/programs running)

Question 19. ... and Digital Versatile Disks (DVDs) are called optical media because... is used to read data from them.

Answer: Compact Disks (CDs) are called optical media because a LASER (light) is used to read data from them

Question 20. Two devices that can produce softcopy output are... and...

Answer: A monitor/screen and a projector (softcopy output is temporary, on-screen output, not printed)

Question 21. The buying and selling of goods and services through the internet is called...

Answer: E-commerce (electronic commerce)

Question 22. The box where data is entered in a spreadsheet is called a...

Answer: A cell

Question 23. ... makes a presentation graphic to be moving when played.

Answer: Animation

Question 24. ... is the term used to refer to the process of starting up a computer.

Answer: Booting

Question 25. The type of software that is used to handle specific tasks on a computer is called...

Answer: Application software (e.g. a word processor or spreadsheet program)

Question 26. ... is the connecting of two or more computers so that they are able to... data, information and resources.

Answer: Networking is the connecting of two or more computers so that they are able to SHARE data, information and resources

Question 27. Random Access Memory (RAM) can lose its... when power is switched off because it is...

Answer: RAM can lose its CONTENTS/DATA when power is switched off because it is VOLATILE (temporary) memory

Question 28. Two devices that can be used to connect a computer to the internet are... and...

Answer: A modem and a router (a network card/Wi-Fi adapter is also acceptable)

Question 29. It is important to... work in order to prevent loss of data when working on a computer.

Answer: SAVE work regularly

Question 30. A printed page can be electronically transmitted from one office to another by...

Answer: Fax machine (or by scanning and emailing/uploading it)

Question 31. Study the diagram of a computer system (labelled A, B, C, D -- a monitor with a small device on top, a printer, and a system-unit tower). (a) Explain briefly how the device labelled A can be used on the computer system. [2] (b) Give the type of outputs that are produced by device B and device C. [2] (c) If part D is not responding to commands, explain two ways of resolving this problem. [2]

(a)

Answer: (judgment call -- see docstring) Device A is a webcam, mounted on top of the monitor; it can be used to capture live video/images of the user, e.g. for video calling or taking photos, and to send this video/image data into the computer

(b)

Answer: (judgment call -- see docstring) Device B is the monitor, which produces a softcopy (on-screen, temporary) visual output. Device C is a printer, which produces a hardcopy (permanent, paper) output

(c)

Answer: (judgment call -- see docstring) Device D is the system unit -- two ways to resolve it not responding: wait a short while in case it is just processing slowly, and if it still does not respond, restart/reboot the computer by switching it off and on again; alternatively, check that all cables connecting it are properly plugged in

Question 32. (a) State two differences between a Local Area Network (LAN) and a Wide Area Network (WAN). [2] (b) Give two advantages that a wireless network has over a wired network. [2] (c) Give two reasons why it is advisable to avoid downloading any free software from the internet. [2] (d) What program in an internet browser is used to search for information? [1] (e) Why is downloading of information from a website sometimes slow? [1]

(a)

Answer: A LAN covers a small area such as one building or school, while a WAN covers a large geographical area such as a country or the whole world; a LAN is also typically cheaper and faster to set up than a WAN, which usually relies on telephone lines or satellite links

(b)

Answer: A wireless network needs no cabling, so it is cheaper and easier to install; and it allows users to connect and move around freely within signal range instead of being tied to a fixed cable point

(c)

Answer: Free software downloaded from the internet may contain viruses or other malware; and it may not be reliable/supported, so it could crash the computer or stop working without any help available to fix it

(d)

Answer: A search engine (e.g. Google)

(e)

Answer: Downloading can be slow because of a weak/slow internet connection, or because many other users are sharing the same connection/bandwidth at the same time

Question 33. The diagram shows a log-in screen on a network requiring a User ID and Password to gain access. (a) What is a password? [2] (b) What would happen if a wrong password is entered more than the maximum number of times allowed? [1] (c) Why is it not a good idea to keep using the same password for a long time? [1] (d) Give two physical ways of protecting computer systems. [2]

(a)

Answer: A password is a secret combination of characters (letters, numbers and/or symbols) known only to an authorised user, which must be entered correctly, along with a User ID, to prove their identity and gain access to a computer system or network

(b)

Answer: The account would normally be locked/blocked (denying further log-in attempts), so the user must contact support to have it reset before they can try again

(c)

Answer: Using the same password for a long time increases the risk that it will eventually be discovered, guessed or stolen by an unauthorised person, since they have more time and more opportunities to find it out

(d)

Answer: Two physical ways of protecting computer systems: keeping computers in a locked room and using door locks/security guards to restrict physical entry; and fitting security cameras/alarms to detect and deter theft or tampering

Question 34. (a) Give two negative social effects of using computers. [2] (b) Use of computers can lead to a number of health problems. State one way of preventing each of: (i) Backache [1] (ii) Eyestrain [1] (iii) Electric shock [1]

(a)

Answer: Two negative social effects: computers can reduce face-to-face social interaction as people spend more time alone on screens; and they can expose users (especially children) to inappropriate or harmful content and cyberbullying online

(b)(i)

Answer: Backache: use a properly adjustable, ergonomic chair and sit with correct posture, taking regular breaks to stand and stretch

(b)(ii)

Answer: Eyestrain: take regular breaks from looking at the screen, ensure the room and screen are well and evenly lit, and keep the screen at a suitable distance

(b)(iii)

Answer: Electric shock: keep liquids away from the computer and cables, ensure cables/plugs are not damaged or frayed, and do not overload electrical sockets

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