

BASIC EDUCATION MOCK EXAMINATION	
December	2 & 1
COMPUTING 2 & 1	
Essay and Objective	
2 hours	

Name:

Index Number:

Signature :

Date of Examination:

ONE VISION EXAMINATIONS CENTRE (OVEC)

BASIC EDUCATION MOCK EXAMINATION

December

COMPUTING 2 & 1

2 hours

Essay and Objective

BASIC 9

Do **not** open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully. Write your **name, index number, signature** and **date of examination** in **ink** in the spaces provided above.

This booklet consists of **two** parts. Answer Paper 2 which comes first, in the booklet and Paper 1 on the Objective Test answer sheet. Paper 2 will last **1 hour 15 minutes**. Do **not** start paper 1 until you are told to do so. Paper 1 will last **45 minutes**. At the end of the examination, submit the **entire** question paper to the invigilator.

Any candidate who tears off any part of the question paper will be **severely** penalized.

Whether you answer all the questions in this paper or not, hand **entire** question paper to the invigilator.

COMPUTING	
For Examiner Use Only	
Question Number	Mark
TOTAL	

PAPER 2: ESSAY

$1\frac{1}{4}$ hours

This paper consists of **two** sections: **A** and **B**. Answer question **1** in section **A** and any other **three** questions in section **B**. All questions carry **equal marks**. Answer **all** the questions in the **spaces** provided in this question paper.

SECTION A

[24 marks]

Answer Question **1** (**compulsory**)

1. (a) The diagram below shows icons of some popular software platforms that are commonly used by computer users. Use it to answer the questions that follow:



A



B



C



D

- i. What collective name is given to platforms above?

..... [2 marks]

- ii. Identify the names of the platforms above.

A - B -

C - D -

[4 marks]

- iii. Suggest three advantages of using the platforms.

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

[6 marks]

(b) Kwame, a University of Ghana student, uses his UG Student ID Card, a smartcard with a chip storing his personal info, student number, and account balance. He uses it to access the library, pay for meals, enter the hostel, and verify his identity in exam halls.

- i. Explain what a smartcard is.

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.....

[3 marks]

ii. State three advantages of using smartcards in this institution.

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iii. Mention three other examples of smartcards used for secure transactions, identification, and access control. **[3 marks]**

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(c) In Madina, Accra, heaps of uncollected rubbish around the market and homes are causing bad smells, blocked drains, and disease outbreaks. The Municipal Assembly asks you, an ICT student, to suggest three ways technology can improve sanitation and waste management. **[3 marks]**

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.....
.....

[3 marks]

SECTION B

[36 MARKS]

Answer **three** questions only from this section.

2. (a) Comfort, a secretary at One Vision Exams Center, gets a new computer without drivers. She can't print, connect to the internet, or play audio. Suggest three device drivers she will need to install and their respective functions in the computer system.

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(b) Outline the steps you will use to insert a SmartArt into an MS Word document. **[6 marks]**

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(c) Give two reasons why companies and businesses should use MS Word for creating their documents. **[4 marks]**

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[2 marks]

3. (a) You've been invited to a national tech fair at the Accra International Conference Center (AICC) to showcase your idea of a next-generation computer. Draw and briefly talk about how you would want to see a next-generation computer.



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- (b) State four examples of wearable devices

[8 marks]

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[4 marks]

4. (a) Limited textbooks at Marist Brothers of Ghana Preparatory School, have made learning difficult for both teachers and students. Suggest four reasons why teachers should adopt e-books to facilitate teaching and learning.

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[4 marks]

- (b) State four ways to reduce eye strain when using a computer.

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[4 marks]

(c) Outline the steps you will use to insert a screenshot into your MS Word document.

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[4 marks]

5. Jessica runs a printing shop in Kumasi. A local church asks her to design a colourful annual harvest envelope. She chooses to use Microsoft Publisher for the job.

(a) Define Desktop Publishing (DTP) software.

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.....

[3 marks]

(b) List three documents that can be created using Microsoft Publisher.

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.....

[3 marks]

(c) State two advantages of using DTP software.

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[2 marks]

(d) Outline the steps Ama can use to convert her publication into a PDF file.

.....
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.....

[4 marks]

END OF ESSAY TEST

BASIC 9

COMPUTING 1

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

**YOU WILL BE PENALIZED SEVERELY IF YOU ARE
FOUND LOOKING AT THE NEXT PAGE BEFORE
YOU ARE TOLD TO DO SO.**

Answer **all** questions in this section.

Each question is followed by **four** options lettered A to D. Find the **correct** option for **each** question and shade in **pencil** on your answer sheet the answer space which bears the same letter as the option you have chosen. Give only **one** answer to **each** question. An example is given below

Which of the following is an input device?

- A. Monitor.
- B. Projector.
- C. Speaker.
- D. Stylus.

The correct answer is 'stylus' which is lettered D and therefore answer space D **would** be shaded.

[A] [B] [C] [~~D~~] [E]

Think carefully before you shade the answer spaces: erase completely **any** answer you wish to change.

Do all rough work on this question paper. Now answer the following questions

1. Which of these is an example of Cloud Storage?
 - A. Google Drive
 - B. Hard Disk Drive
 - C. USB Pen Drive
 - D. DVD
2. In Excel, macros are used to
 - A. record and automate repeated tasks
 - B. change the theme of the sheet
 - C. filter data quickly
 - D. insert pictures into cells
3. What will be the result of the expression $10 + 2 * 5$ in programming following the BODMAS protocol?
 - A. 60
 - B. 20
 - C. 30
 - D. 15
4. Which is a good naming convention for a variable?
 - A. Student_name
 - B. 123score
 - C. Total%Marks
 - D. !user
5. The computing trends in the next generation of computers focus on
 - A. enhanced memory storage
 - B. improved cooling systems
 - C. perceptual computing
 - D. advanced hard drives
6. Devices such as wearable displays are primarily used for
 - A. monitoring computer health
 - B. displaying digital content
 - C. increasing processing speed
 - D. enhancing storage capacity
7. Cloud storage systems allow users to
 - A. access files from multiple devices
 - B. create virtual keyboards
 - C. replace hardware components
 - D. install software updates
8. Risk reduction at workstations can be achieved through
 - A. limiting screen brightness
 - B. regularly updating software
 - C. using proper tools
 - D. increasing processor speed
9. Storing your files in a remote location, allowing you to access them later over the internet, is known as
 - A. cloud storage
 - B. internet storage
 - C. remote storage
 - D. media server
10. Which of the following storage is normally used for securing sensitive information?
 - A. Compact disc
 - B. Smart cards
 - C. Shared hard disk
 - D. Inkjet scanners

11. One major advantage of holographic storage is its
- enhanced graphics rendering
 - reduced power consumption
 - speed of processing
 - ability to store large amounts of data
12. Perceptual computing refers to computer systems that
- interact with human senses
 - optimise data storage
 - enhance physical keyboards
 - replace traditional monitors
13. Health issues at workstations are often caused by
- using high-resolution screens
 - frequent software crashes
 - lack of ergonomic furniture
 - overheating of devices
14. The primary function of a device driver is for it to
- enhance gaming performance
 - control a specific hardware device
 - improve network connectivity
 - optimize computer speed
15. The use of SmartArt in word processing allows users to
- organize files more efficiently
 - write faster codes
 - improve typing speed
 - create structured graphics
16. The health issue associated with improper workstation ergonomics when listening to loud sounds is
- respiratory problems
 - carpal tunnel syndrome
 - vision impairment
 - hearing loss
17. Which technology is used by Google Sycamore for quantum computing?
- Superconducting qubits
 - Fiber optics
 - Transistors
 - RAM chips
18. The computer device drivers that control the proper functioning of audio devices connected to the computer system are the
- network drivers
 - sound drivers
 - display drivers
 - hardware drivers
19. Which of the following is an example of data validation?
- Making a chart
 - Restricting entry in a cell to numbers only
 - Sorting names alphabetically
 - Adding bold formatting to text
20. Pivot tables are useful because they
- sort rows automatically
 - summarise large amounts of data
 - insert animations into the sheet
 - record macros
21. If an invitation card looks crowded and hard to read, the designer can improve it by
- adding more pictures
 - using smaller fonts and reducing white space
 - removing unnecessary text and balancing the layout
 - printing it on coloured paper only
22. Which is an example of iteration in programming?
- Printing a message once
 - Adding two numbers
 - Repeating a block of code 5 times
 - Declaring a variable
23. All the following are examples of wearable devices except
- smartphone
 - Google glass
 - smart watch
 - hearing aid
24. Storage systems like smart cards are used in banks for
- video game consoles
 - secure transactions
 - peripheral devices
 - audio processing
25. One of the following is not a variant of MS Word?
- MS Word 2003
 - MS Word 2005
 - MS Word 2007
 - MS Word 2010
26. Which of the following is associated with the fourth generation of computers?
- Microprocessor
 - Vacuum tubes
 - Semiconductors
 - Transistors

27. Health issues from prolonged computer use can be reduced by
- installing anti-virus software
 - using faster processing units
 - setting up ergonomic workspaces
 - adding more RAM
28. File management systems primarily help computer users to
- process information faster
 - encrypt sensitive data
 - update software regularly
 - retrieve and organize files efficiently
29. Inserting hyperlinks in a Word document allows users to
- change the formatting style
 - create external resources
 - increase the document's size
 - improve system stability
30. One important file management technique is regularly
- adding more RAM to a system
 - upgrading graphics cards
 - increasing monitor size
 - backing up data regularly to prevent loss
31. Inserting charts into documents allows users to
- clear visual representation of data
 - enhanced system performance
 - increased screen brightness
 - faster file access
32. When creating a secure password for an online account, what's the most practical and secure approach to take?
- Use the same password for all accounts
 - Use a combination of letters, numbers, and symbols
 - Choose a simple word for easy recall
 - Write the password down on paper
33. While working on an assignment in a word processor, you accidentally delete a paragraph. What's the most effective way to recover the deleted text?
- Restart the computer
 - Write it again from memory
 - Save and close the document
 - Press the undo button
34. What is the term for the technology that allows computers to understand and respond to human movements?
- Holography
 - Gesture recognition
 - Hypnosis
 - Sound engineering
35. What's the recommended frequency for taking breaks while working on a computer for extended periods?
- Every hour
 - Every two hours
 - Every 20-30 minutes
 - When tired or stressed
36. A device such as an e-paper is primarily used for
- storing data
 - displaying electronic content
 - managing cloud services
 - enhancing sound quality
37. Which of the following follows the correct BODMAS order?
- Add, Divide, Multiply, Brackets, Subtract
 - Brackets, Order, Divide, Multiply, Add, Subtract
 - Multiply, Add, Subtract, Brackets, Order
 - Brackets, Divide, Multiply, Add, Subtract, Order
38. Which of the following is not a characteristic of a good DTP document?
- Clear headings
 - Poor colour contrast
 - Balanced layout
 - Readable fonts
39. Artificial Neural Networks are inspired by
- computer chips
 - human brain structure and function
 - animal behaviour only
 - mathematical formulas only
40. When evaluating a flyer, which factor is most important?
- The paper weight only
 - The design's ability to communicate
 - The number of copies printed
 - The software used to design it