# **COMPUTING**

# STRUCTURE AND SCHEME OF THE EXAMINATION

The examination will consist of two papers for a total duration of 2 hours. Paper 2 which comes first will be (Essay) and Paper 1 which follows will be (Objective).

# 1. PAPER 1 (OBJECTIVE)

The paper will consist of 40 compulsory objective questions and will last for 45 minutes. This will carry 40 marks.

# 2. **PAPER** 2 (ESSAY)

The paper will consist of two sections: A and B.

Section A will be a compulsory question for 24 marks and Section B will have 4 questions out of which candidates will answer any 3 for 12 marks each. The Paper will last 1 hour 15 minutes and will carry 60 marks.

**NB**: Candidates are expected to answer **only four** questions in all. Any candidate, who contravenes this instruction, would have only the first four answers marked leaving those in excess unmarked.

#### 3. WEIGHTING OF THE PAPER

Paper	Marks	Scaling factor	Total marks	
1 (Objective)	40	1	100	
2 (Essay)	60	1	100	

# SAMPLE QUESTIONS PAPER 1 (OBJECTIVE)

Candidates are expected to answer 40 questions on this paper.

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.

- 1. Which program icon on the desktop leads to the disk drives?
  - A. Internet Explorer
  - B. My Computer
  - C. My Document
  - D. My Network Places
- 2. The Fourth Generation of computers is associated with
  - A. vacuum tubes.
  - B. semi-conductors.
  - C. transistors.
  - D. microprocessor.
- 3. To underline selected text in a Word document, use the keys
  - A. Ctrl + U
  - B. Shift + U
  - C. Alt + U
  - D. Del + U
- 4. The default MS PowerPoint layout is
  - A. section header.
  - B. title only.
  - C. two content.
  - D. title slide.
- 5. Which of the following measures is used to evaluate a webpage to ensure how true the information acquired is?
  - A. Currency
  - B. Content
  - C. Credible
  - D. Accuracy

6.	A bit that is turned OFF represents
	A. 1
	B1
	C. 0
	D. ±1
7.	The step-by-step approach used in
	A. sequencing.
	B. selection.

- in solving a specific problem is

  - C. algorithm.
  - D. iteration.
- 8. Convert 15<sub>ten</sub> to a binary
  - A. 1111<sub>2</sub>
  - B. 1110<sub>2</sub>
  - C. 1011<sub>2</sub>
  - D. 1101<sub>2</sub>
- 9. The robotic component that allows the robot to interact with its environment such as movement and manipulation are
  - A. sensors.
  - B. actuators.
  - C. power source.
  - D. control systems.
- 10. In querying an expert system, the IF-THEN control structure
  - A. provides information on the use of the system.
  - B. specifies the reason for querying the system.
  - C. provides information about the user of the system.
  - D. specifies a condition and an action to be taken.

#### PAPER 2 (ESSAY)

This paper is in **two** sections. **A** and **B**. Canddates are expected to answer Question 1 in section **A** and any other **three** questions in Section **B** 

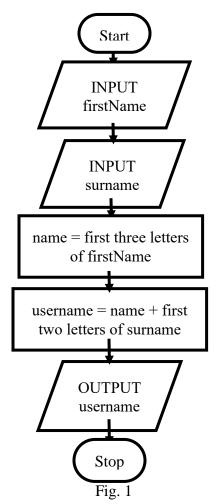
SECTION A

[24 marks]

Answer Question 1

# [Compulsory]

1. The Head of your school presented the program shown in Fig. 1 to the school's Programming Club. The program creates usernames for students in the school. Members of the Club were then tasked to discuss and answer the questions that follow:



Using the process in Fig 1, Kojo Baah's username would be KojBa.

(a)	Write the name of Fig 1:	
		[2 marks]
(b)	Using the process in Fig 1, create the username for Patience Mensah.	
		[2 marks]

(0	c)	Draw the symbol that represents the processing stage of the program
		[2 marks]
		odated to create usernames as follows: username is the last 3 letters of surname and the ers of first name.
(0	d)	What will be the username for a student called Mark Elolo using the updated process?  [4 marks]
(6	e)	Write an algorithm for the updated process in (d).
		[14 marks]
		SECTION B
		[36 marks]
		Candidates are expected to answer three questions only from this section.
2.	(a) I	Discuss <b>one</b> features each of the fourth generation computers in terms of:
۷.	(i)	cost:
	(ii)	
	()	[6 marks]
	(b)	Describe <b>three</b> features of the computer mouse.
	(i)	
	(ii)	·
	(iii	)
3.	(a) I	[6 marks] Describe the best way to resize a picture in order to avoid distorting its aspect ratio.
		[3 marks]
		Differentiate between the Save and the Save As commands. Give one example each in
		cases
	•••	[6 marks]
		Kojo Talata designed a brochure which contains texts and images. He is finding it ifficult to write the texts around the images as the desktop publishing application is not
	a	llowing that. What tool will be applicable to achieve the task?
	••••	
		[3 marks]