

**UNIVERSITY OF GHANA BASIC SCHOOL, LEGON**  
**FIRST MOCK EXAMINATION – 2025**



**07103/2&1 MOCK 1**  
 OCTOBER, 2025  
**COMPUTING 2 & 1**  
 Essay and Objective  
 2 hours

**2&1**

Name:.....  
 Index No:..... Class:.....  
 Candidate's Signature: .....

**Paper 2**    1 hour 15 minutes

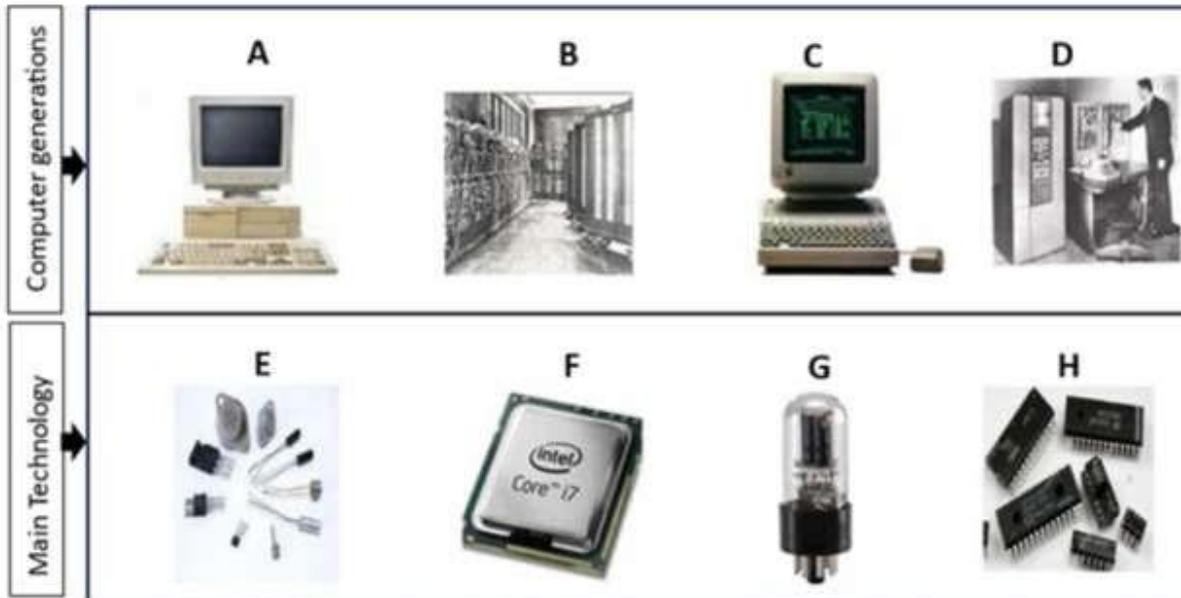
*This paper is made up of Part I and Part II. Answer question **one** of **Part I** and any **three** questions from **Part II**.*

*All questions in Part II carry equal marks. Answer all questions on your question paper.*

**SECTION A**

**PART I – COMPULSORY** [24 marks]

1. Study the images below carefully and use them to answer question 1(a) to 1(c).



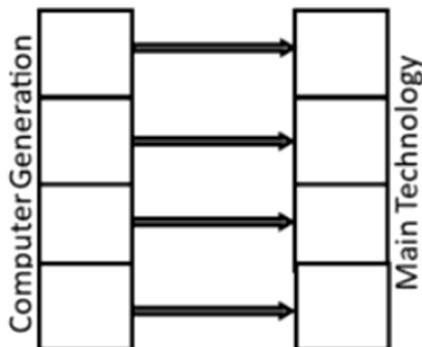
(a) Identify the computer generations labelled A, B, C and D. [2 marks]

A \_\_\_\_\_  
 B \_\_\_\_\_  
 C \_\_\_\_\_  
 D \_\_\_\_\_

(b) Name the technologies labelled E, F, G and H.

E \_\_\_\_\_  
 F \_\_\_\_\_  
 G \_\_\_\_\_  
 H \_\_\_\_\_ [2 marks]

(c) Match the computer generations to their main technologies using the letter labels.

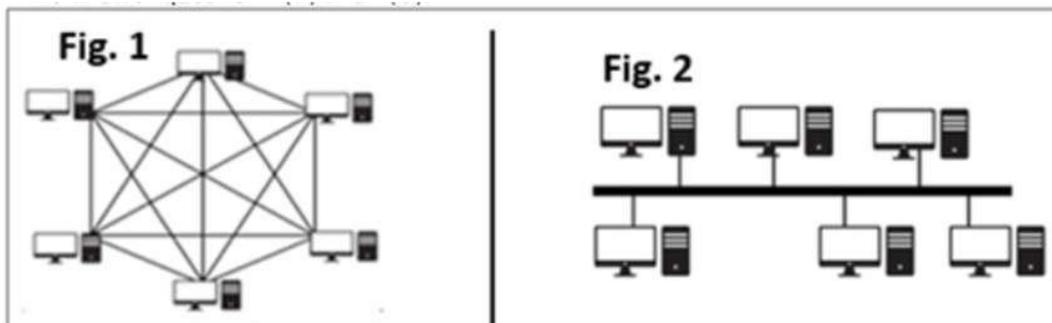


[2 marks]

(d) Identify the following flowchart elements by name and purpose. [4 marks]

Symbol	Symbol Name	Purpose
		
		
		
		

(e) The diagrams below describe how devices are connected with each other in a network.



Use it to answer question e (i), e (ii) and e (iii)

e (i) Name the type of connection in the diagrams above.

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

Fig. 2 \_\_\_\_\_ [2 marks]

e (ii) State one advantage of the connection in Fig. 1.

\_\_\_\_\_ [2 marks]

e (iii) State one disadvantage of the connection in Fig. 2.

\_\_\_\_\_ [2 marks]

(iii) Name two other types of connections

\_\_\_\_\_ [2 marks]

(f) In a computing project, your group was tasked to design a flyer to announce the 70th anniversary of your school.

(i) Which type of productivity software is most suitable to accomplish this task?

\_\_\_\_\_ [2 marks]

(ii) List two (2) popular examples of the software mentioned in f (i).

\_\_\_\_\_ and \_\_\_\_\_ [2 marks]

(iii) State one action you will take when you realize that you are being stalked on social media.

\_\_\_\_\_ [2 marks]

**SECTION B**

[36 marks]

*Answer three questions only from this section.*

2. (a) Use Class range (A-E) to answer the following questions

- I. Which class of IP address is suitable for a very large organization that requires millions of hosts? \_\_\_\_\_
- II. Which class does the IP address **240.0.0.5** belong to \_\_\_\_\_
- III. Identify the class of IP address **192.168.10.5**. \_\_\_\_\_
- IV. The IP address **172.20.5.9** belongs to which class? \_\_\_\_\_
- V. An organization has been assigned the IP address **10.15.0.0**. Which class does this IP address belong to? \_\_\_\_\_
- VI. The IP address **230.15.10.5** belongs to which class\_\_\_\_\_. It is for multicast communication.

[3 marks]

(b) List four examples of literary works covered by copyright law.

\_\_\_\_\_  
\_\_\_\_\_ [2 marks]

(c) Students of University Basic School, Legon are beginning to complain of eye strain due to prolong use of computers at school. Suggest two possible ways to prevent this problem at school.

\_\_\_\_\_  
\_\_\_\_\_ [2 marks]

(d) Most companies use data entry devices that capture machine-readable data directly into the computer system without using the keyboard. List three of such data entry devices.

\_\_\_\_\_  
\_\_\_\_\_ [3 marks]

(e) Write the following acronyms in full.

SSD \_\_\_\_\_  
TCP/IP \_\_\_\_\_  
URL \_\_\_\_\_  
HDMI \_\_\_\_\_  
WWW \_\_\_\_\_

[2 marks]

3 (a) Draw and name the following Intellectual property icons

i) Copyright	ii) Registered	iii) Trademark
iv) Protection	v) Service mark	vi) Public Domain

[6 marks]

(b) Mention any four (4) technology tools for learning stating the subject each can help you learn.

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[2 marks]

(c) Your Uncle works as a networking Consultant. Draw to suggest two (2) network topologies he can use to network computers in your school.

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[4 marks]

4. a) Computer users in your community have been using their computers as standalone. State two benefits they will derive when their computers are networked.

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[2 marks]

b) State three (3) ways social media can be used productively in your school.

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[3 marks]

c) Teacher Mantey just finished making changes to his MS word document. He wants to convert it into a portable document format (PDF). Write the steps he will follow.

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[3 marks]

d) List any four (4) programming languages

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[4 marks]

5. a) Mention any two special features that make MS PowerPoint different from other programs.

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[2 marks]

b) How can a robot be used in your school? State two uses

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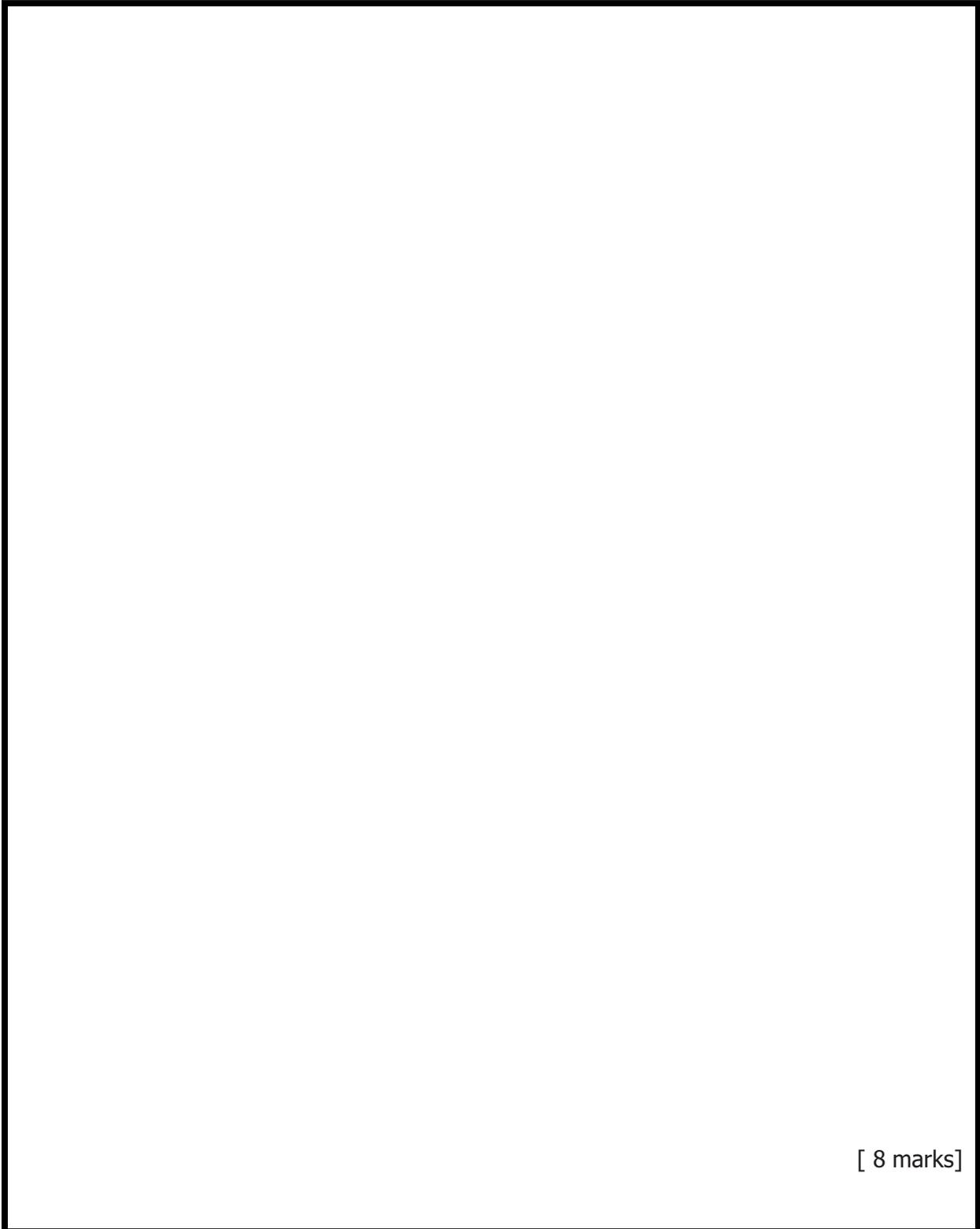
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[2 marks ]

c) Draw a flow chart to represent the steps shown in the algorithm below

1. Prompt the user to enter a number
2. Check if the number is divisible by 2
3. If the number is divisible by 2, print "Even"
4. If the number is not divisible by 2, print "odd"



[ 8 marks]

