

SC6232  
 WASSCE 2022  
 INFORMATION  
 AND COMMUNICATIONS  
 TECHNOLOGY (ELECTIVE) 2  
 Essay  
 1 hour

2

CANDIDATE'S NAME	
INDEX NUMBER	SIGNATURE
DATE:	

THE WEST AFRICAN EXAMINATIONS COUNCIL  
 West African Senior School Certificate Examination  
 for School Candidates

SC 2022

INFORMATION AND COMMUNICATIONS  
 TECHNOLOGY (ELECTIVE) 2  
 [30 marks]

1 hour

Do not open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully.

INSTRUCTIONS TO CANDIDATES

- Write your name, full index number, normal Signature and the date of examination in the spaces provided at the top of this paper.
- Please note that your name should be written in the order in which it was captured during registration.
- In addition to writing your name on the front page of your booklet, write your index number at the top of each page.
- This booklet contains five questions. You are required to answer three questions only. All questions carry equal marks. Paper 2 will last 1 hour after which the booklet will be collected.
- Write boldly and legibly in ink (preferably black) and state your answers precisely.
- Write your answers within the spaces provided.
- Do not write your answer(s) beyond the spaces provided.
- Do not tear off any part of this booklet. It is an examination malpractice if you do so.
- Write in the box below, the question numbers of the questions you answered, in the order in which you answered them.

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For Examiner's Use Only	
Question Number	Mark
<b>TOTAL</b>	



2. (a) Give **one** service provided on the Internet.

.....  
.....

[1 mark]

(b) In the context of data transmission security, explain the following terms:

(i) Password;

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

[3 marks]

(ii) Data encryption;

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

[3 marks]

(iii) Data decryption.

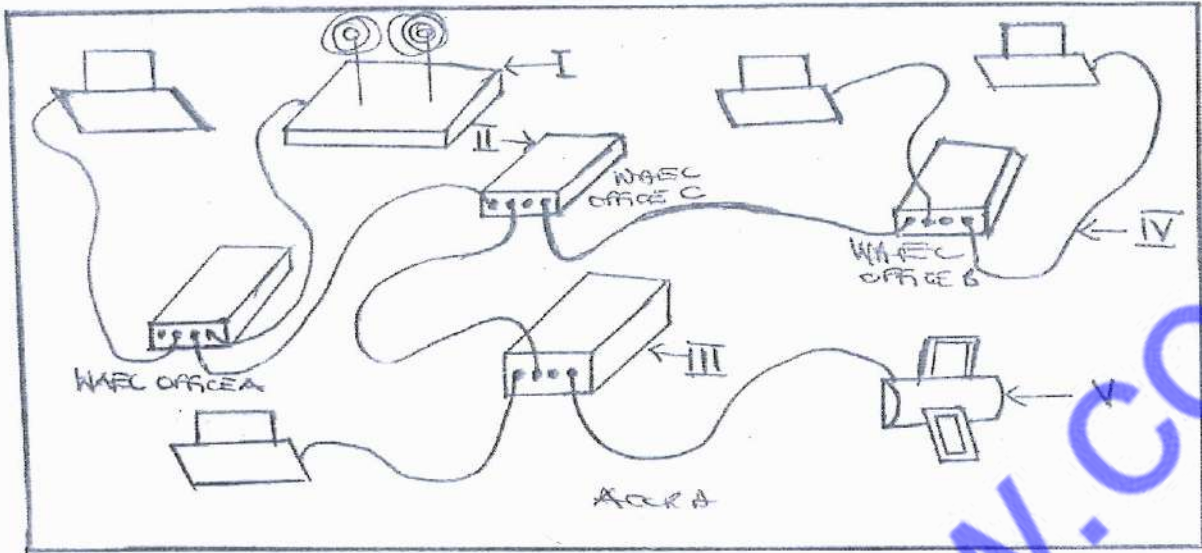
.....  
.....  
.....  
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.....  
.....  
.....  
.....  
.....

[3 marks]

**Turn over**



3. Use **Figure 1** to answer the sub-questions (a), (b) and (c).



**Figure 1**

(a) State the type of network in Figure 1.

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

[1 mark]

(b) Label the parts I, II, III, IV and V.

I..... [1 mark]

II..... [1 mark]

III..... [1 mark]

IV..... [1 mark]

V..... [1 mark]

(c) (i) State **one** function **each** of the parts labelled I and III.

I.....

.....

.....

.....

[2 marks]

III.....

.....

.....

..... [2 marks]

4. Use the worksheet below to answer the sub-questions (a), (b), (c), (d) and (e).

	A	B	C	D	E	F	G
1	24						89
2	12	32				50	23
3	13	58	67		40	90	45
4	87			89			15
5	7	45	12		90	40	20
6	23	14				70	22
7	23						30

Write the spreadsheet formula using functions to find the:

(a) product of all the numbers in column A;

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

[2 marks]

(b) average of all the numbers in columns A and G together;

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

[2 marks]

(c) greatest of all the numbers in rows 3, 4 and 5 together;

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

[2 marks]

(d) lowest of all the numbers in columns B and F together;

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

[2 marks]

(e) total of all the numbers in rows 4, 5 and 6 together.

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

[2 marks]

**Turn over**

