

**FORM FOUR
COMPUTER STUDIES
HOLIDAY ASSIGNMENT
APRIL, 2024**

1. State the purpose of each of the following memories in a computer system (2 marks)
 - a) RAM
 - b) Hard disk
2. List **two** files used in mail merging (2 marks)
3. Explain the following terms as used in desktop publishing (3 marks)
 - a) Embedded object
 - b) Auto flow
 - c) Zoom
4. State four ways of identifying an illegal copy of an operating system (4 marks)
5. State any three disadvantages of using the magnetic tape (3 marks)
6. (a) Subtract 110_2 from 11010_2 (1mk)

(b) Find the sum of binary number 101.101_2 and 110.100_2 (1mk)

(c) Convert binary number 11010110.1001_2 into octal number. (1mk)
7. List **three** uses of DVDs. (3mks)
8. How does an operating system manage computer memory. (2mks)
9. List **four** factors to be considered when purchasing an operating system. (2mks)
10. List **three** ways by which you can provide a common link or relationship between the tables in a database software. (3mks)
11. Describe the following terms as used in internet.
 - (a) Webpage (1mark)
 - (b) Blog (1mark)
 - (c) Hyperlinks (1mark)
 - (d) Web portal (1mark)
12. Give **four** advantages of DTP over a word processor (2 marks)
13. Differentiate between the following
 - (i) Kerning and tracking (2 marks)
 - (ii) Margins and column guides (2 marks)
14. Give importance of having the following in computer laboratory;-
 - Standard furniture in the laboratory (1 mark)

15. Distinguish between ROM and RAM

SECTION B (60 MARKS)

Answer question 16 and any other THREE questions in this section

16. a) Describe the REPEAT...UNTIL control structure using a pseudo-code segment. (4mks)

b) Give two ways of testing a program for errors. (2mks)

c) Name four examples of third generation programming languages. (2mks)

d) Study the pseudo code below and answer the questions that follow.

Start

```
Input value N and Value M
IF Value N > Value M THEN
    SUM = Value M + 25
ELSE
    SUM = Value N - 30
ENDIF
Print SUM
```

Stop.

Draw a flowchart for the pseudo code above (8mks)

17. (a) Subtract 0111_2 from 1001_2 (2 marks)

(b) Using two's complement, subtract 17 from 34 and give the answer in binary notation. (4 marks)

(c) Convert

i) $FEDA_{16} \longrightarrow X_{10}$ (3 marks)

ii) $42.25_8 \longrightarrow X_{10}$ (3 marks)

iii) $254.90_{10} \longrightarrow X_2$ (3 marks)

18. (a) List and describe four strategies for converting from an old system to a new system. (4mks)

(b) (i) Distinguish between private data and confidential data (2mks)

(ii) What can be done to stop illegal access to a computer laboratory by unauthorized people. (3mks)

(c) (i) List **four** areas that would be considered in the requirement specification. (4mks)

(ii) Name any **two** areas covered in feasibility report during system analysis and design. (2mks)