REPUBLIQUE DU CAMEROUN Paix-Travail-Patrie

MINISTERE DES ENSEIGNEMENTS SECONDAIRES

CELLULE D'APPUI A L'ACTION PEDAGOGIQUE ANTENNE RÉGIONALE DU NORD QUEST

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REPUBLIC OF CAMEROON

Peace-Work-Fatherland

MINISTRY OF SECONDARY EDUCATION

TEACHERS' RESOURCE UNIT REGIONAL BRANCH FOR THE NORTH WEST

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MARCH 2022

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with COSTA

SUBJECT CODE NUMBER 0796

PAPER NUMBER

GENERAL CERTIFICATE OF EDUCATION AND INTERMEDIATE TECHNICAL AND VOCATIONAL EDUCATION REGIONAL

ADVANCED LEVEL

MOCK EXAMINATION

SUBJECT TITLE

INFORMATION AND COMMUNICATION TECHNOLOGY

Time Allowed: TWO and a half hours INSTRUCTIONS TO CANDIDATES

Mobile phones are NOT ALLOWED in the examination room.

INSTRUCTIONS TO CANDIDATES

Answer any SIX questions.

All questions carry 17 marks each. For your guidance, the approximate mark for each part of a question is indicated in brackets

You will be marked on your ability to use good English, to organize information clearly and to use specialist vocabulary where appropriate

In calculations, you are advised to show all the steps in your working, giving your answer at each

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Calculators are allowed.

You are reminded of the necessity for good English and orderly presentation in your answers. You are advised to read carefully through the question paper, before you begin your answers.

	10
1. i) a) State three components of data communication systems. b) Differentiate between Symples transmission.	(3marks)
b) Differentiate between Synchronous and Asynchronous transmission. c) Describe two applications of the few modes of data communication: Simplex an	(2marks)
b) Differentiate between Synchronous and Asynchronous transmission: Simplex and Describe two applications of the following modes of data communication: Simplex and	d Full duplex.
of the following in	(2marks)
ii) Define the following as used in DBMS	()
a) Primary key	
b) Attribute	
a) Pelationshing	(2)
With the aid of a diagram and state its major limitation	(3marks)
iii) With the aid of a diagram, describe a star topology and state its major limitation. iv) State the function of the feller is thing devices	(4marks)
iv) State the function of the following networking devices a) Firewall	
a) i newan	
b) Gateway	
c) Modem.	(3marks)
2. i) a) List in order the first 4 layers of the OSI model.	(2marks)
b) What is the importance of implementing a fault tolerant network system?	(1mark)
ii) A ——————————————————————————————————	
") A	
$B \longrightarrow \square$	
C	
	(3marks)
a) Establish the Boolean expression for the logic circuit above?	
b) With respect to the above logic circuit, draw the truth table.	(4marks)
iii) a) What is GIS?	
	(1mark)
b) State three applications of GIS in your community	(3marks)
c) What is the importance of using the SDLC.	(3marks) (1mark)
c) What is the importance of using the SDLC. d) State four models used in SDLC.	(3marks)
c) What is the importance of using the SDLC. d) State four models used in SDLC.	(3marks) (1mark)
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a) Internet and Intranet
                                                                                                (2marks)
  b) HTTP and HTML
 b) HTTP and HTML
iii) a) State the main difference between Peer-to-Peer network and client-server network.
                                                                                                (2marks)
 b) What is the difference between LAN and MAN.? Give examples
                                                                                                (2 marks)
                                                                                                (3marks)
 iv) Convert 11101012 to-base 8
  iv) Convert 11101012 to-base 8

(2 mark)

6. i) a) Using a structured design methodology show the step-by-step process of developing a system
                                                                                                (2 marks)
  with aid of a waterfall diagram.
  with aid of a waterfall diagram. (4marks)
b) With respect to architecture, Local Area Networks are divided into two categories. With the aid of a
                                                                                                (4marks)
  diagram, explain these categories.
  diagram, explain these categories.

ii) When a new ICT system has been tested thoroughly by the programmer then it is ready to be
                                                                                                (4marks)
  implemented into a working environment replacing the original system.
       a. State and explain two methods of this implementation.
                                                                                                (4 marks)
       b. Give 2 advantages and 2 disadvantages of each of the strategies given above
                                                                                                (4 marks)
       c.Name two structural based classification of database
                                                                                                 (Imark)
(i) Differentiate with examples in each case verification and validation
                                                                                                (3marks)
   ii) Briefly explain the following properties that make computers so useful.
                                                                                               (10 marks)
       Speed
   b) Accuracy
   c) Storage
   d) Versatility
   e) Resilience
   iii) what are the major differences between the following:
   a) PHP and SQL?
   b) HTML and CSS
                                                                                                (4 marks)
   8. i) Briefly explain the meaning of the following terms:
   a. SQL Join
                                                                                                 (2marks)
   b. E-commerce
                                                                                                (2 marks)
   ii) Describe how the following activities are accomplished in e-commerce.
                                                                                                (4 marks)
   a) Purchasing
   b) Selling
   c) Transfer of funds
   iii) ICT has had a huge impact on individuals and society. One significant impact is on people's
   working lives. Describe the impact of ICT on people working in manufacturing.
                                                                                                (2 marks)
   iv) Give the function of the following components of the microprocessor.
   a. Register
                                                                                                   (2mks)
   b. Bus
   v) Below is a piece of code.
  $colors = array("blue", "white", "black");
    foreach ($colors as $value) {
  echo "$value
   ?>
                                                                                                 (1 mark)
   a) State the programming language used.
   b) Give the output when this code is executed.
                                                                                                (2 marks)
   vi) Describe one way which can be used to prevent:
   a) Repetitive Strain Injury (RSI)
                                                                                                (2 marks)
   b) Eye strain
                                                     END
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