2009 MAY/ JUNE NBC/NTC
SECTION B
ESSAY
Attempt FIVE questions in all, at least one from each section.
All questions carry equal marks

SECTION I: INTRODUCTION TO INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT)

Question 1
(a) (i)   Who is a database administrator
    (ii)   State three (3) advantages of Database System to NABTEB as an examination body
 (b)   Describe two (2) methods of securing data from computer hackers?

Solution 1
(a)(i)   Database administrator (DBA) is a person that manages, update, control, maintain, secure and modify Data base.

   (ii)   a.   Easy access to data and information
            b.   Data base improved strategic use of corporate data
            c.   Easier modification and updating of data
            d.   Data base improved data integrity
            e.   Easy back – up and recovery of data, e.t.c
(1b)   Explanation of any 2 of;
        The use of passwords
        The use of data encryption
        The use of firewall
        The use of intension detection system
        Digital certificate e.t.c
            Any 2
        Example
1. Data encryption: Involves the translation of data into a form that is illegible without a deciphering mechanism
2. Password: this involves a secret word or phrase that gives authorized user access to a particular file, system or data base.

Question 2
(a) (i) What is your e-mail address?
    (ii)   State three (3) minimum parts of all internet e-mail address

(iii)   Assuming your e-mail address domain ends with .co.uk,what dose .co.uk mean?
(c)   Distinguish between Post Office Protocol (POP) and Internet Mail Access Protocol

Solution 2
(a)(i)   Any e-mail address that has the following features:
-   It must be in lower case
-   User name
-   @ symbol
-   Domain
-   No space between the characters
    e.g. desiromond@yahoo.com, mabayoje2003@yahoo.com, nbtc@hotmail.co.uk
(ii)   - user name
        - @symbol
        - Domain

(iv)   co.uk is an internet country code for the united kingdom

(2b)   PoP does not support mail folder but support inbox
        While
        IMAP support mail folder in addition to the inbox

**SECTION II: COMPUTER APPLICATION I & II (WORD PROCCESSING. SPREAD
SHEET, POWER POINT & COREL DRAW)**

Question 3
(a)(i)   Define "Word Processing"
  (ii)   State THREE (3) advantages of word processing over type writer
(b)(i)   Explain briefly Two (2) types of formatting of text in MS- word
  (ii)   State the steps to be taken to copy a text within a document.

Solution 3
a(i)   Word processing is the use of computer to create, revise, format, edit and save document
         for printing.

(ii)   1.   It saves time
       2.   Storage
       3.   Speed
       4.   Word wrap
       5.   Easy editing
       6.   Spell checking
       7.   Inserting picture\
       8.   Duplication
       9.   easy formation etc   Any 3

3b
                              i.   font size

      ii.   font color
      iii.   character spacing
      iv.   line formatting
      v.   page formatting
      vi.   paragraphing
      vii.   bullets and numbering
      viii.   change case etc   Any 2

Explanation:
1.   the size of the character i.e. changes from one size to another.
2.   changes from one color to another color
3.   font size changes from regular style to another style

3b(ii).   Highlight/select/block the text
          Click at edit
          Any short – cut key is acceptable

Question 4
(a)   (i)   What is spreadsheet?
       (ii)   Identify the features of work book in MS Excel
(b)   Write a short note on THREE (3) of the following features found in a workbook environment
       (i)   Cells
       (ii)   Formula bar
       (iii)   Sheet tabs
       (iv)   Tab scrolling buttons
(c)   (i)   sketch a draft on a piece of paper to create a workbook structure
       (ii)   Outline the suggested order when entering data in an excel work sheet

Solution 4
4ai.   Spreadsheet is an array (collection) of rows and columns which form cells in which data can be entered
(ii)   Worksheet
        Formula bar
Rows
Columns
Cell label
Scroll buttons
Sheet tab
      Any 4

b.   cells: Definition, diagram or example. e.g
       - Is formed out on intersection of rows and columns
       - It is a rectangular box in which data is entered in work sheet etc

Formula bar:- Display the content of active cell.
- For formula entries
Sheet tabs: - locate at the lower part of the current sheets in a work book
- Display the number of sheets in a work books
- It indicates the current sheet or it display the name of work sheet
you are working with

Tab scrolling buttons: move a sheet left, and right, up and down
Any 3

4C (i)

	A	B	C	D	E	F	G
1							
2							
3							
4							
5							
6							
7							

(ii)   Go to the desired cell enter the data

Question 5
(a) (i) Differentiate between power point and presentation
(ii) Mention FOUR (4) ways presentations are delivered in to audience using different media
(iii)   Identify the THREE (3) parts which Normal View is divided in power point.
(b) (i) Explain briefly the uses of bitmaps in MS Corel draw
(ii) State FOUR (4) functions of pick tool in MS Corel draw

Solution 5
a(i)   - slide
2   overhead transparencies
3   automated shows on a computer
4   broadcast over the web

a(ii)   - slide pane
5   outline pane
6   note pane

b(i)   Bitmap is used to convert text for the purpose of modification
(ii)   To:
7   pick the drawing tool
8   drop tool after use
9   select object
10 deactivate drawing tool
etc   Any 4

SECTION III: AUTOCAD I & II

Question 6

(a)i   State TWO (2) advantages of AUTOCAD over manual drawing in the design process

ii   Explain briefly the link between computer aided design (CAD) and computer aided manufacturing (CAM)

(b) (i) With suitable examples, give the difference between Cartesian and polar co- ordinates system

   (ii) Explain briefly the use of the following modify commands in AUTOCAD:
       (a)   array
       (b)   fillet
       (c)   offset
       (d)   chamfer

Solution 6

a(i)   -   easy dimensioning
       easy duplication
       -    easy modification
       13 speed
                etc   Any 2

 (ii)   CAD is soft ware used for designing objects while CAM is software that aids the manufacturing of objects designed

b(i)   Examples:

Cartesian	Polar
P1: 50, 50	P9: 175, 150
P2: 100, 50	P10: @ 50 < 45
P3: 100, 100	P11: @50 < 135
P4: 50, 100	P12: @ 50 < 225

                Any 2

(ii)
       (a)   Array is used to create multiple copies of object in a pattern
       (b)   Fillets is used to round and fillets the edges of an object
       (c)   Offset is used to create concentric circles, parallel lines and parallel curves
       (d)   Chamfer is used to create sloping edges (bevels) of objects

Question 7
       (a)   Describe briefly how to create angular dimensions
       (b)   (i) Explain how to use array command to draw polar array
              (ii) State how layers help in construction and understanding of drawing

Solution 7
(a)   select dimension tool
(b)   select dimension style
(c)   select dimension style manger
(d)   click on new

(b) i

        Draw big circle, inscribe small circle at the top make sure that the polar array is enabled on the array dialog box.
        Select object and press enter
        Click on pick center point on the dialog box
        Click on the center of the circle
        Enter the total number of angle, click on the center again and press enter.

  (ii)

        Layer help in construction and understanding of a drawing in that it is used to differentiate different parts on the construction with different colors for their understanding of a drawing.