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Provincial Department of Education – NWP

GIT | E | I

First Term Test - Grade 12 - 2019

Index No : .... | General Information Technology (GIT) I | One Hour

- **Answer all questions.**
- **Underline the most suitable answer among given answers.**

- **Following diagram represent the process of withdrawing money from an automated teller machine (ATM) . Answer the questions 1 to 4 by using that diagram.**

1
Credit card, Password, Amount of money
➡
2
Checking the account
➡
3
Receiving money
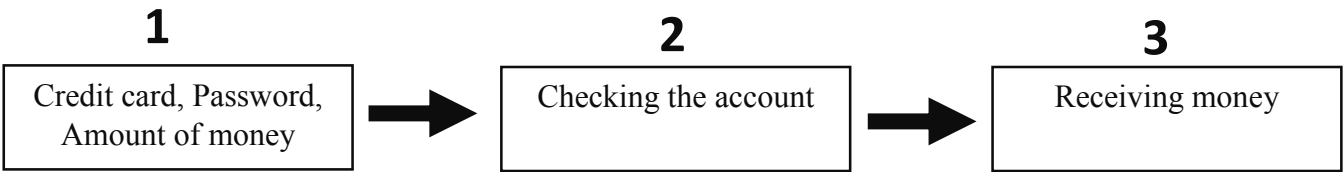
1. What is the component which can be identified as issuing money from an ATM?
    i. Input   ii. Process   iii. Storage   iv. Output

2. How can you identify the first step of the above process?
    i   Input   ii. Process   iii. Storage   iv. Output

3. According to the above system, what is the component which can be used as input and output device?
    i.   Keyboard   ii. Thermal printer
    iii. Touchscreen   iv. Closed Circuit Television (CCTV)

4. What is the memory that is used to store username, password and amount of money during a transaction?
    i.   Random access memory (RAM).   ii. Read only memory (ROM).
    iii. Hard disk   iv. Memory card

5. What is the answer that contains input devices only?
    i.   Mouse, Keyboard, Printer, Scanner.   ii. Mouse, Keyboard, Printer, Speaker.
    iii. Joystick, Keyboard, Speaker, Scanner.   iv. Joystick, Keyboard, Mouse, Scanner.

6. What is the component of the computer given below that is not most important?
   i. Clock speed of a CPU. 　　　　　ii. Capacity of the hard disk.
   iii. Capacity of the main memory. 　　v. Size of the computer.

7. "A large number of users are exchanging, storing and retrieving data and information by connecting to a computer using a large number of terminals"
   What is the type of computer that is explained in above sentence?
   i. Mainframe computer. 　　　　　ii. Workstation computers.
   iii. Super computers. 　　　　　　v. Microcomputers.

8. What is the memory type that is used to store the programs POST and Bootstrap loader?
   i. Random access memory (RAM). 　　ii. Hard disk.
   iii. Read only memory (ROM). 　　　　iv. Memory registers.

9. The storage device which is used in first generation computers is?
   i. Compact disks.　　ii. Floppy disks.　　iii. Blue ray disks.　　iv. Punch cards.
   ii.

10. Integrated circuits are used in …..A….. computers and ……B….. are used in fourth generation computers.
    What are the most suitable answers for A and B?
    i. Second generation, Vacuum tubes.
    ii. Second generation, Microprocessors.
    iii. Third generation, Microprocessors.
    iv. Fourth generation, Microprocessors.

11. What is the answer which contains characteristics of qualitative information?
    i. High quality, Completeness, Accuracy.
    ii. High quality, Timeliness, No tiredness.
    iii. High quality, Completeness, Speed.
    iv. High quality, Speed, No tiredness.

12. ……A……… can create detailed images of internal organs of the body and …….B……. creates 3D images of internal organs of the body.
    What is the most suitable answer for A and B?
    i. A – CAT machine　　B – MRI machine.
    ii. A – MRI machine　　B – CAT machine.
    iii. A – MRI machine　　B – ECG machine.
    iv. A – MRI machine　　B – EEG machine.

13. What is the disadvantage of online shopping to the customer?
    i. 24 hours service.
    ii. Intangibility.
    iii. Using credit cards for the transactions.
    iv. Ordering goods at anywhere.

14. ……….. printer can be identified as …………... printers. ……………. and high quality printouts can be taken by using …………… printers.
    i.   Laser, cost effective, Dot matrix, expensive.
    ii. Dot matrix, cost effective, expensive, laser.
    iii. Expensive, laser, dot matrix, cost effective.
    iv. Cost effective, Laser, expensive, dot-matrix.

15. When components are connected to the computer, keyboard is connected to …….A……. Computer is connected to a network via ………B……. and multimedia projector is connected through ……..C………
    What is the answer that contains the most suitable ports in a computer or A,B and C.

    i.   HDMI. USB, RJ45.   ii. USB, RJ45, HDMI
    iii. PS/2, USB, HDMI   iv. HDMI, RJ45, Video

16. The computer identifies all the things as,
    i.   Numbers   ii. Letters   iii. Images   iv. Electronic signals

17. What is the binary number equivalent to the Decimal number 83 ?
    i. 1000101_2 ii. 1010011_2 iii. 1011101_2 iv. 1100001_2

18. What is the decimal number of 10001_2
    i.   17   ii. 93   iii. 71   iv. 117

19. What is the ascending order of the numbers 1001_2, 26_{10}, A_{16}, 7_8?
    i. $7_8, A_{16}, 11001_2, 26_{10}$ ii. $7_8, A_{16}, 26_{10}, 11001_2$
    iii. $A_{16}, 7_8, 11001_2, 26_{10}$ iv. $7_8, 26_{10}, 11001_2, A_{16}$

20. A – Decimal number 78 is equivalent to the binary number 1001110_2 .
    B – The ASCII code of M letter is equivalent to the decimal number 78
    Of those two statements, what is the correct one?
    i.   A only.   ii. B only.   iii. A and B   iv. None of the above

21. It is essential to insert both username and password correctly to create an user account in a computer. What is the logic gate that explains above incident clearly?
    i.   AND gate.   ii. OR gate.   iii. NOT gate.   iv. AND and NOT gates.

22. What is the Boolean expression that is represented in following truth table?

A	B	X
0	0	0
0	1	1
1	0	1
1	1	1

    i.   A.B
    ii. $(A+B)^{/}$
    iii. A+B
    iv. $(A.B)^{/}$

23. ASCII code of the letter A is 1000001_2. What is the ASCII value of letter C?
    i. 1000010_2 ii. 1000011_2 iii. 1100011_2 iv. 1100010_2

24. …………….. coding system is used to represent many languages in the world. What is the best answer for the blank?
    i.   ASCII   ii. BCD   iii. UNICODE   iv. EBCDIC

25. In windows operating system, what does it happen when select the run command and type as 'cmd'?
    i.   Popup an error message.
    ii.   Search the files which are with the name cmd
    iii. Open the command prompt
    iv.   Nothing happens

26. Active speed of hardware, Amount of information, their values and the direction of flowing information. Which of the following method is used to manage above tasks?
    i.   Memory management   ii. Process management
    iii. Device management   iv. File management

27. What is the best word which can be used to explain an operating system?
    i.   Hardware   ii. Liveware   iii. Software   iv. Shareware

28. Select the answer that explains 'Application software'.
    i.   Keep the connection between hardware components
    ii.   Keep the smoothness of an operating system
    iii. Completing user requirements and coming into operation on operating system
    iv.   Converting human languages to machine language

29. Which of the following software can be considered as utility software?
    i.   Disk partitioning   ii. Spreadsheet software
    iii. Word processing software   iv. Database

30. Select the answer that contains graphical user interfaces only?
    i.   Dos, Windows, Ubuntu   ii. Unix, Linux, Windows
    iii. Mac OS, Windows, Dos   iv. Linux, Windows, Mac OS

31. A word processing software that can be used in tablet PC's and Smart phones.
    i.   Libre Office Writer
    ii.   Libre Office Calc
    iii. Office 365 Word
    iv.   Document To Go

32. File extensions .docx, .pdf, .txt, .doc are used in,
    i.   Word processing software   ii. System software
    iii. Antivirus software   iv. Utility software

33. What are the shortcut keys which can be used to print a letter?
    i. Ctrl + C   ii. Ctrl + V   iii. Ctrl + P   iv. Ctrl + M

34. What is the combination of shortcut keys which can be used to redo operation in a word processing software?
    i. Ctrl + R   ii. Ctrl + Y   iii. Ctrl + O   iv. Ctrl + Z

35. Which of the following output that consist of toggle case format of the words "Good morning"?
    i.   Good Morning   ii. GOOD MORNING
    iii. good morning   iv. gOOD MORNING

36. A task that can be done by only using a word processing software is,
    i.   Mail Merge   ii. Copying   iii. Printing   iv. Cut and Paste

37. Consider the following sentences regarding the page layout of a word processing software.
    a. Page margins are identified as Top, Bottom, Left, Right.
    b. Page orientation types are portrait and landscape.
    c. Some of page sizes used in word processing software are A4, Letter and Legal.
    What is/are true from above statements?
      i. A only   ii. A and B only   iii. A and C only   iv. A, B and C

38. What is the correct answer that contains security technique in order to avoiding unauthorized accesses to a computer?
    i.   Antivirus software
    ii. Firewall
    iii. Stabilizer
    iv. UPS

39. Which of the following answer that does not contain a bad result of using internet?
    i.   Addiction to the online chatting.
    ii. Addiction to the social media.
    iii. Pain in the body.
    iv. Impact of malicious software.

40. What is managed by 3R concept?
    i.   Social problems related to the information technology
    ii. Legal problems related to the information technology.
    iii. Moral problems related to information technology.
    iv. Environmental problems related to information technology.

Provincial Department of Education NWP Provincial Department of Education NWP Provincial Department of Education NWP Provincial Department of Education - NWP
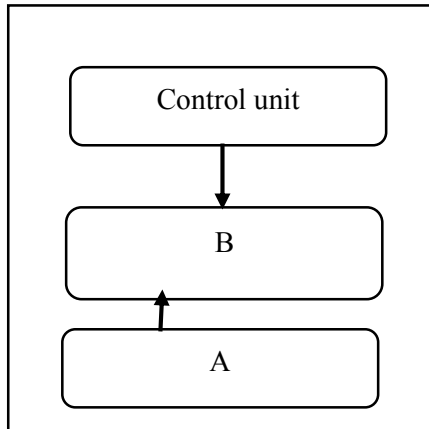Provincial Department of Education NWP Provincial Department of Education NWP Provincial Department of Education NWP Provincial Department of Education - NWP

Provincial Department of Education – NWP

| GIT | E | II |

First Term Test - Grade 12 - 2019

Index No : ....　General Information Technology (GIT) II　Two Hours

Important

Answer all 07 questions given below.

01.　a.　What is a computer system?　(3 Marks)
　　b.　Write two special characteristics of a computer.　(1 Mark)
　　c.　Write two types of existences of data.　(1 Mark)
　　d.　"Today's weather report is not suitable to decide weather conditions of tomorrow"
　　What is the characteristic of qualitative information is explained in above sentence?　(1 Mark)

02.　a.　Write the difference between input and output devices.　(2 Marks)
　　b.

```
+-----------------------------------+
|                                   |
|     +-------------------------+   |
|     |      Control unit       |   |
|     +-------------------------+   |
|                  |                |
|                  v                |
|     +-------------------------+   |
|     |           B             |   |
|     +-------------------------+   |
|                  ^                |
|                  |                |
|     +-------------------------+   |
|     |           A             |   |
|     +-------------------------+   |
|                                   |
+-----------------------------------+
```

Above diagram represent the basic structure of CPU.

　　i.　What are A and B?　(2 Marks)
　　ii.　Explain the task of B briefly.　(2 Marks)
　　iii.　What is the memory that gives data directly to the CPU?　(1 Mark)
　　iv.　What is the memory that consists of the starting program of a computer (BIOS)?　(1 Mark)

03. Following table consists of number systems and coding systems used in the computer. Write the correct answers with their labels which are matched with the blanks. (10 marks)

Number systems			
Number system	**Base**	**Numbers used**	**Maximum value**
Binary	2	........C...........	..........D...........
......**A**.............	10	0123456789	9
Hexadecimal	.........**B**..........	0123456789ABCDEF	.........**E**...........
Coding system			
Coding system	**Number of bits use**	**Number of characters**	**Representation**
ASCII	.... **F**	128	.........**G**...........
.........**H**...........	16	65536	Texts ....**I**........... ....**J**...........

A		F	
B		G	
C		H	
D		I	
E		J	

04. Consider the following incident.

You can download the application form of GIT examination via the hyperlink www.Gitonlineexam.com /GIT application.pdf. After downloading it you have to create a folder with the folder name "GIT 2019" in the user interface of your computer and the application form should be copied to the above folder.

   i. Write the steps of creating a folder in the user interface of the computer. (1 Mark)
   ii. Write the steps of renaming it as "GIT 2019" (1 Mark)
   iii. Write the steps of copying the application form (GITapplication.pdf) to the above folder. (2 Marks)
   iv. What are the shortcut keys that are used to copy the application to the folder? (2 Marks)
   v. Write the steps of following incident. (2 Marks)

   Taking a picture (Snapshot) of the graphical user interface of your computer and save it as picture.jpg in the folder "GIT 2019".

05. Main door of a house is voice recognized and it opens by identifying the instructions given by house owner or using a remote control.

   • Consider the instructions given by the user as A and instructions given by using remote control as B.

| A	Giving owner's instructions	1
	Not giving owner's instructions	0
B	Giving instructions using remote control	1
	Not giving instructions using remote control	0

   i. Write the outputs (Z) of the following truth table. (4 Marks)
   ii. Write the name of the logic gate which is relevant to open the door. (2 Marks)

iii.
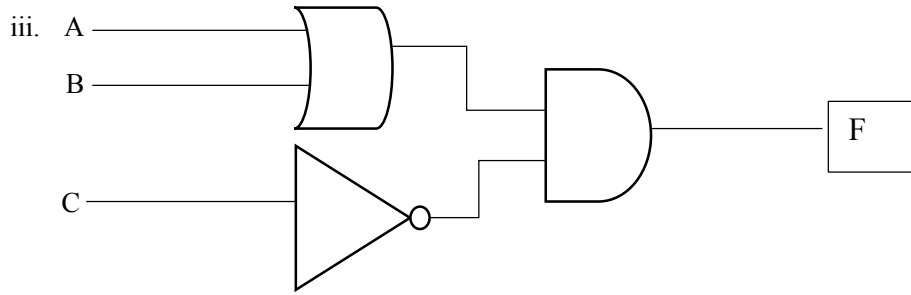
Write the Boolean expression of above circuit using A,B and C as inputs. (2 Marks)

iv. Inputs of A and B of the above circuit should be 1,0 respectively and C should be ……… to get the output (F) as 1.Write the input of C. (2 Marks)

06. i. Write 3 uses of word processing software. (3 Marks)
ii. Provide answers for the following questions using the certificate which was designed by using word processing software.
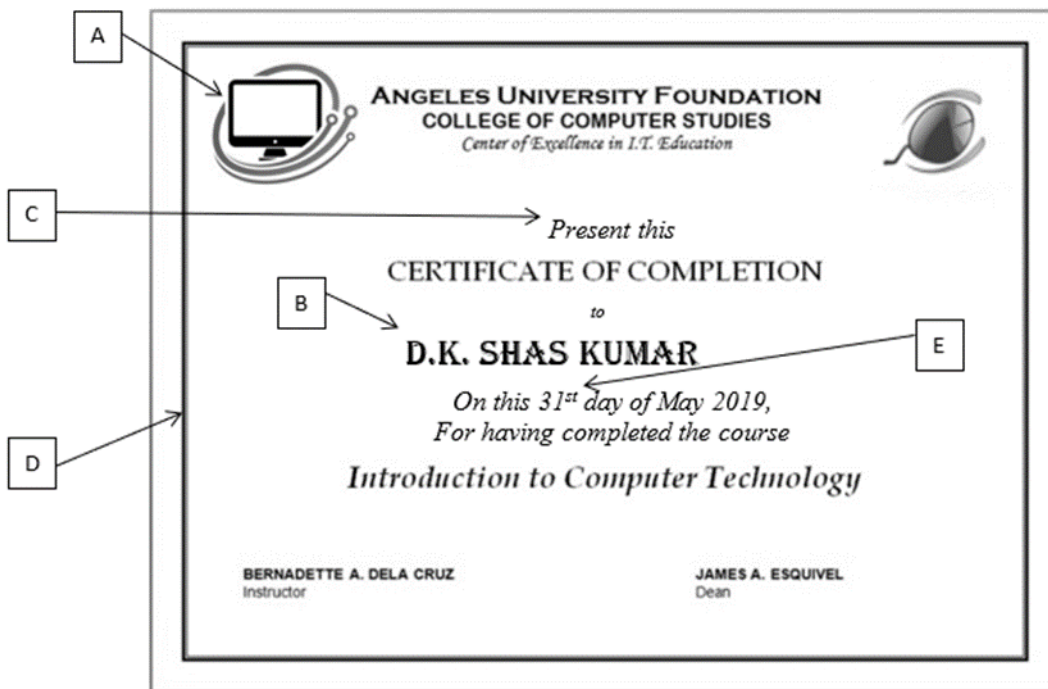
List of tools

Shapes, Bold, Italic, Underline, justify, Margins, Picture, Word Art, Drop Cap, Page Borders, Font face, superscript, columns, Thesaurus, Center

(Consider – One tool should not be used more than one place in the answer. If it is marks are not given)

a.　　What are the tools that are used to setup/ format the above A, B, C, D?　　(4 Marks)

b.　　 Which of the above tool can be used to format the date (E) in the document?　　(1.5 Mark)

c.　　What is the tool which can be used to align the contents center?　　(1.5 Mark)

07.　a.　Write three uses of information and communication technology in the classroom.　　(2 Marks)

b.　Write three situations of using information and communication technology in entertainments? (2 Marks)

c.　Write two institutions which provides information and communication facilities established by the government of Sri Lanka.　　(2 Marks)

d.　Write two special characteristics of the newest generation computers.　　(2 Marks)

e.　What is the architecture which is used to create new computers?　　(2 Marks)

Answer Script Part 01

1. iv	11. 1	21. i	31. iv
2. i	12. ii	22. iii	32. i
3. iii	13. ii	23. ii	33. iii
4. i	14. ii	24. iii	34. iv
5. iv	15. ii	25. iii	35. iv
6. iv	16. i	26. iii	36. 1
7. i	17. ii	27. iii	37. iv
8. iii	18. i	28. iii	38. ii
9. iv	19. i	29. i	39. iii
10. iii	20. iii	30. iv	40. iv

Part II

01.

   a. A **computer system** is a set of integrated devices that input, output, process, and store data and information (3 Marks)

   b. Speed, Accuracy, Efficiency, Versatility, Save and Retrieving. 0.5 x 2 (1 Mark)

   c. Text, Numbers,(Alpha Numeric), Audio, Video, Symbols. 0.5 x 2 (1 Mark)

   d. Timeliness (1 Mark)

02.

   a. An **input device** is any hardware **device** that sends data to a **computer**
An **output device** is any **device** used to send data from a **computer** to another **device** or user. (2 Marks)

   b.

      i. A- Memory Registers B- Arithmetic and Logical Unit (2 Marks)

      ii. B An arithmetic logic unit (**ALU**) is a digital circuit used to perform arithmetic and logic operations (2 Marks)

      iii. Main Memory/RAM (1 Mark)

      iv. ROM (1 Mark)

03.

   a. (10 Marks)

A	Decimal	**F**	**7**
B	16	**G**	**Text, Number, Symbols**
C	0 1	**H**	**Unicode**
D	1	**I**	**Graphics**
E	F	**J**	**Videos/sounds**

04.
  i.   Right click on the desktop→New→Folder   (1 Mark)
  ii. Right click on the Folder→rename→ Type "GIT2019"   (1 Mark)
  iii. Windows explore→ Open Down lord Folder→select GIT application.pdf file →Copy→open
       Folder GIT2019 Folder→Past or Relevant answer
          (2 Marks)
  iv. Copy:- Ctrl+C   Paste :- Ctrl+P   (2 Marks)
  v.   Accessories → "Snipping" →new→Select the area of image→save as *Picture.jpg on Folder*
       GIT2019
       Search → "Snipping" →new→Select the area of image→save as *Picture.jpg on Folder* GIT2019
                                                                              (2   Marks)

05. i   (4 Marks)

A	B	Z
0	0	0
0	1	1
1	0	1
1	1	1

  ii.   OR Gate   (2 Marks)   iii. F= (A+B).C$^{/}$ (2 Marks)   iv.C = 0   (1 Marks)

06.
  I.   Making documents , letters and letterhead , memos , card creation
        Posters, Invitations, labels,   Notes and notices   etc..   (03 Marks)
  II. a.
  A-   Picture   (04 Marks)
  B -   Font face
  C -   Italic
  D -   Page Borders
    b.   E-   superscript   (1.5 Marks)
    c.   Center   (1.5 Marks)

07
  a. Use Presentations, videos, Internet, learning CD
     Making Assessments, or Relevant answers   (02 Marks)
  b. Social Networks ,Audio, Video, Films, Games, E-books and news etc ...   (02 Marks)
  c. ICTA, Nenasala, Vidatha, CERT   .   (02 Marks)
  d. Use ULSIC, Small devices, Nano technology, Artificial Intelligent etc.. or Relevant answers
                                                                                 (02 Marks)
  e. Von Neumann Architecture   (02 Marks)