



General Information Technology GIT பொதுத் தகவல் தொழினுட்பவியல் General Information Technology GIT பொதுத் தகவல் தொழினுட்பவியல்
G.C.E. (A/L) Examination – November 2019
 Conducted by Field Work Center (FWC), Thondaimanaru
 In Collaboration with the Northern Provincial Education Department
 General Information Technology (GIT) பொதுத் தகவல் தொழினுட்பவியல்

பொதுத் தகவல் தொழினுட்பவியல் I
 General Information Technology I

Three hours

01

E

I

Gr. 12 (2021)

Instructions:

- ❖ Answer all questions
- ❖ Write down your index number on the space provided.
- ❖ In each of the questions 1 to 40, pick one of the alternatives (1),(2),(3),(4) which is correct or most appropriate. Mark a cross (X) on the number corresponding to your choice in the answer sheet provided.
- ❖ No use of calculators.

1. Which of the following technology was used in fourth generation computers?
 (1) Vacuum tube (2) Transistor (3) Microprocessor (4) Integrated circuit
2. Binary equivalent of 22_{10} is.
 (1) 10110_2 (2) 11010_2 (3) 11100_2 (4) 10111_2
3. Which of the following is a component of central processing unit (CPU)?
 (1) Random Access Memory (RAM) (2) Motherboard
 (3) Control Unit (CU) (4) Hard disk
4. Laptop computer is a type of.
 (1) Microcomputer (2) Super computer
 (3) Mainframe computer (4) Minicomputer
5. $10111_2 =$
 (1) 12_{10} (2) 45_{10} (3) 23_{10} (4) 23_{10}
6. In computer system, ALU stands for.
 (1) Arithmetic Large Unit (2) Addition Logic Unit
 (3) Arithmetic Logic Universe (4) Arithmetic Logic Unit
7. Which of the following is considered as an input device?
 (1) Computer monitor (2) Keyboard (3) Hard disk (4) Printer
8. 2KB =
 (1) 2048 bytes (2) 4096 KB (3) 2GB (4) 1000 KB

9. Which of the following is /are considered as output devices?

A – Mouse

B – Floppy disk

C – Printer

(1) A only

(2) B only

(3) C only

(4) A,B,C all

10. Which of the following is considered as an application software?

(1) GNU/Linux

(2) Ms-Windows

(3) Ms-Word

(4) Mac OS X

11. Which of the following is an example for word processing software?

(1) MS-Excel

(2) MS-Windows

(3) Adobe photoshop

(4) Libre office Writer

12. Which of the following is a typical function of an operating system?

(1) memory management

(2) securing computer from viruses

(3) providing Internet connectivity to the user

(4) providing graphical facilities to the users

13. Consider the followings.

A – Software

B – Hardware

C – Malware

Which of the above is /are not the component(s) of computer system?

(1) A only

(2) B only

(3) C only

(4) A,B,C all

14. The logical component of a computer system is called.

(1) Hardware

(2) Software

(3) Firmware

(4) Liveware

15. Which of the following has the fastest data access speed?

(1) Harddisk

(2) Compact disc

(3) Main memory

(4) Floppy disk

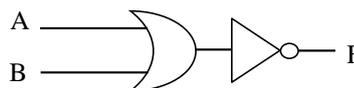
16. Which of the following statement is correct about the following logic circuit?

(1) The value of F is 1 if A = 0, B = 0

(2) The value of F is 1 if A = 0, B = 1

(3) The value of F is 1 if A = 1, B = 0

(4) The value of F is 1 if A = 1, B = 1



17. Speaker is a/an.

(1) Input device

(2) Output device

(3) Secondary storage device

(4) memory

18. Which of the followings is /are non-volatile memories?

A – Read only memory

B – Random access memory

C – Cache memory

Which of the above is /are correct?

(1) A only

(2) B only

(3) C only

(4) A,B,C all

19. Which of the following is correct about the facilities in a word processing software?

(1) Editing a sound clip

(2) Editing a video clip

(3) Formatting text

(4) A table cannot be created

20. In a word processing software, which of the following shortcut key can be used to cut a text?

(1) Ctrl + C

(2) Ctrl + X

(3) Ctrl + U

(4) Ctrl + V

21. Ascending order of computers from left to right according to their size is.

(1) Minicomputer, microcomputer, mainframe computer, super computer

(2) Main frame computer, microcomputer, minicomputer, super computer

(3) Super computer, microcomputer, minicomputer, mainframe computer

(4) Microcomputer, minicomputer, mainframe computer, super computer

22. Which of the following secondary storage device has the largest storage capacity?

(1) Harddisk

(2) Compact disc

(3) Floppy disk

(4) Flash drive

23. Which of the following icon can be used to align a text into left in a word processing software?

(1) 

(2) 

(3) 

(4) 

24. In a word processing software, the following icon  represents.

(1) Cut

(2) Copy

(3) Superscript

(4) Subscript

25. Which of the following is considered as an optical device?

(1) Flash drive

(2) Harddisk

(3) DVD

(4) Floppy disk

26. What is the name of the following input-output port (I/O port)?



(1) PS/2

(2) VGA

(3) USB

(4) HDMI

27. Consider the following truth table.

A	B	C
0	0	0
0	1	0
1	0	0
1	1	1

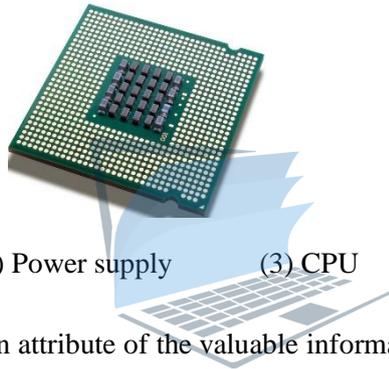
What is the logic gate represented by this truth table?

- (1) NOT (2) OR (3) AND (4) NOR

28. In a typical word processing software, shortcut key Ctrl + B is used for.

- (1) Cut (2) Bold (3) Help (4) Copy

29. What is the component of a computer system given in the following picture?



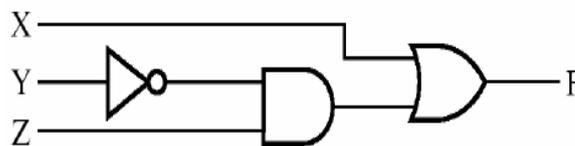
- (1) Motherboard (2) Power supply (3) CPU (4) Hard disk

30. Which of the following is not an attribute of the valuable information?

- (1) Huge amount of data
(2) Accuracy
(3) Relevant
(4) Reliability

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31. What is the output F in the following logic circuit?



- (1) $X + YZ$ (2) $X\bar{Y}Z$ (3) $X + \bar{Y}Z$ (4) $\bar{X} + YZ$

32. A student decides to remove VLC media player permanently from computer. Which of the following feature in an operating system may be used for that?

- (1) Add / Remove program
(2) Sniping tool
(3) Windows Explorer
(4) Disk defragmenter

33. If the character 'A' is represented as '1000001' in ASCII encoding system, what will the character 'D' be represented?

- (1) 1000001₂ (2) 1000100₂ (3) 1000010₂ (4) 1000111₂

34. Which of the following is used to identify a file type in computer?

- (1) File name
(2) File extension
(3) folder containing file
(4) Subfolder containing file

35. Which of the following icons available in a word processing software can be used to apply the formatted text effect again into another text?

(1)



(2)



(3)



(4)

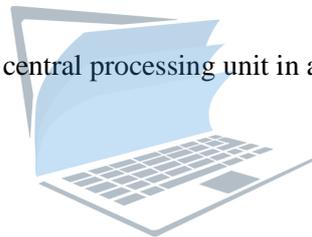


36. Which of the following is a utility software?

- (1) Disk cleanup (2) Ms-Word (3) Ms-Windows (4) GIMP

37. Which of the following component of central processing unit in a computer that stores instructions temporarily?

- (1) Hard disk
(2) Register
(3) Arithmetic Logic Unit
(4) Control Unit



38. Which of the following is correct about the number 540?

- (1) This is only an octal number
(2) This is only a binary number
(3) This is only a decimal number
(4) This may be a decimal or hexadecimal number

39. Which of the following is an ascending order of the binary numbers 1011₂, 1101₂, 1110₂?

- (1) 1011₂, 1110₂, 1101₂
(2) 1110₂, 1011₂, 1101₂
(3) 1101₂, 1011₂, 1110₂
(4) 1011₂, 1101₂, 1110₂

40. Which of the following can be considered as information?

- (1) Index number
(2) Rainfall
(3) Examination marks
(4) Average marks obtained by 25 students in a Mathematics examination



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பொதுத் தகவல் தொழினுட்பவியல் II
General Information Technology II

Three hours

01

E

II

Gr. 12 (2021)

Answer any four questions only

1.

- (a) Computers may be classified into three types according to technology used. What are they?
- (b) Various kinds of technologies are used in secondary storage devices. Write down two examples for optical storage devices.
- (c) Copy the following truth table in answer script and write down the values of columns.

A	B	NOT A	NOT B	NOT A AND NOT B	A OR B	NOT (A OR B)
0	0					
0	1					
1	0					
1	1					

(d) Consider the following components.

- (i) Control Unit (CU)
(ii) Random Access Memory (RAM)
(iii) Arithmetic Logic Unit (ALU)
(iv) Motherboard
(v) Register

Which of the above is /are the component(s) of central processing unit (CPU)?

[Note: no marks given for additional answers]

(e) Write down volatile memory and non-volatile memory separately from the following hardware list.

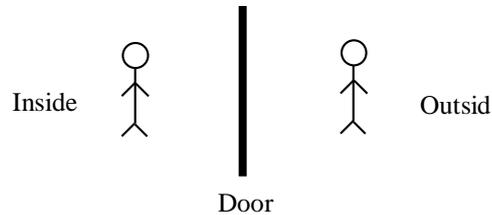
- (i) ROM
(ii) RAM
(iii) Cache memory
(iv) Register

[Note: no marks given for additional answers]

2.

(a)

- (i) An electronic automatic door fixed in a building works with the help of two sensors. Door is opened automatically when persons, from inside or outside, come nearest to that door. The illustration is given below.



The door logic works as follows. Inside sensor (I) and Outside sensor (O)

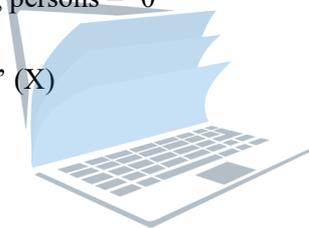
Boolean values:

Sensing persons = '1' and Not sensing persons = '0'

Door open = '1' and Door closed = '0' (X)

(i) Construct truth table

(ii) What is the single logic gate for this logic?



(b) The following questions are about the computer system. Fill the blanks in from the list given below.

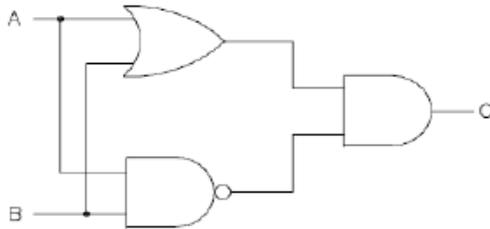
- (i) "..... is a pointing device".
(ii) "..... is used to print larger printings".
(iii) "..... is used to store data and instructions temporarily in computer".
(iv) "..... may be used to connect mouse with computer".
(v) "..... is a magnetic secondary storage device".

[Lists - Keyboard, VGA port, CPU, DVD, Memory, PS/2 port, Light pen, Hard disk, HDMI port, Plotter]

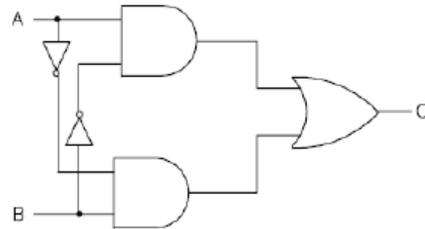
3.

(a) Write down output C for the following logic circuits.

(i)



(ii)



(b) Construct truth table for the following Boolean expression.

$$A \cdot \bar{B} + C$$

(c) Convert the followings into decimal form.

(i) 11101_2

(ii) 10011_2



4.

(a) Write down whether the following statements are true or false.

- (i) The contents of main memory are accessible directly by CPU.
- (ii) Cache memory is a volatile memory
- (iii) Magnetic field is used for writing and reading data on compact disc.
- (iv) Speed of microprocessor is measured in GHz
- (v) Capacity of random access memory (RAM) is measured in GB.

(b) Write down input device, output device and secondary storage device separately from the five list given below.

- (i) Input device
- (ii) Output device
- (iii) Secondary storage device

[Lists - Printer, CD, Memory card, Light pen, Mouse, Zip disk, External Hard disk, Speaker, SSD, Stylus]

[Note: no marks given for additional answers]

5. Consider the following paragraph formatted by using word processing software.

Steve Jobs was born **February 24, 1955, in San Francisco, California**, and was adopted by Paul and Clara Jobs. He grew up with one sister, Patty. Paul Jobs was a machinist and fixed cars as a hobby. Jobs remembers his father as being very skilled at working with his hands.



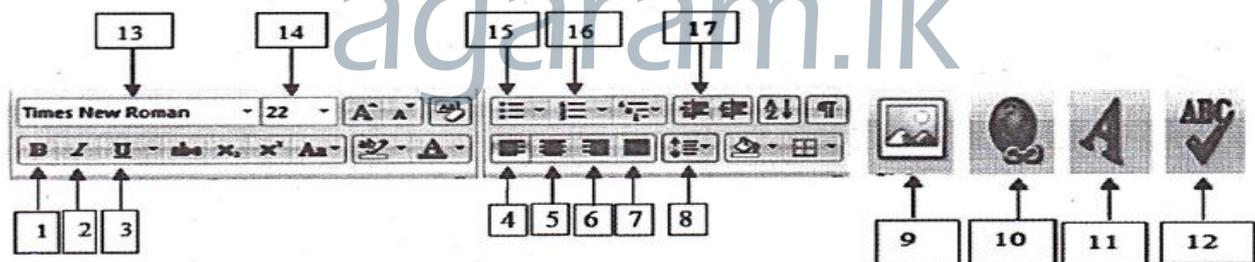
In 1961 the family moved to Mountain View, California. This area, just south of Palo Alto, California, was becoming a center for electronics. Electronics form the basic elements of devices such as radios, televisions, stereos, and computers.

At that time people started to refer to the area as "Silicon Valley." This is because a substance called silicon is used in the manufacturing of electronic parts.

As a child, Jobs preferred doing things by himself. He swam competitively, but was not interested in team sports or other group activities. He showed an early interest in electronics and gadgetry. He spent a lot of time working in the garage workshop of a neighbor who worked at Hewlett-Packard, an electronics manufacturer.

Read more: <https://www.notablebiographies.com>

Write down how the tasks given below are completed by using the following tools in the toolbar (writing labels are enough).



- (i) Formatting text as shown by label ②
- (ii) Aligning paragraph as shown by label ③
- (iii) Inserting an image as given above in the paragraph
- (iv) Verifying spell checking in the paragraph
- (v) Creating a hyperlink as shown by label ④
- (vi) Changing the word "Silicon Valley" into the larger size of font
- (vii) What facility in the word processing software would you use to format the text as shown by label ① ?
[It is not marked in the toolbar given above]

[Note: Assume that the font size given in the paragraph is 12 and no marks will be awarded if more than the required number of labels are written]
