

G.C.E. (Advanced Level) Examination

August 2014

(GIT) - I, II

with Answers

Three hours

General Information Technology I

Important : * Answer all questions on the Answer Sheet provided.

* Write your Index Number in the space provided on the answer sheet.

* Instructions are given on the back of the answer sheet. Follow them carefully.

* In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is correct or most appropriate and mark your response on the answer sheet in accordance with the instructions given therein.

1. Which of the following is/are true about the first generation computers?

A - Physical size of a computer was relatively large.

B - Vacuum tubes were used in circuitry.

C - Machine language was used for programming.

(1) A only (2) B only (3) A and C only (4) All A, B and C

2. Which of the following are components of the Central Processing Unit (CPU) of a computer?

(1) Arithmetic and Logic Unit (ALU), Control Unit

(2) Arithmetic and Logic Unit, Secondary Storage

(3) Control Unit, Main Memory

(4) Main Memory, Secondary Storage

3. Which of the following are examples of Secondary Storage?

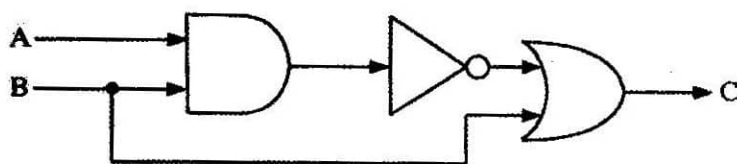
(1) CD, Flash Memory, Magnetic Tape

(2) CD, Magnetic Tape, Read Only Memory (ROM)

(3) DVD, Magnetic Tape, Random Access Memory (RAM)

(4) Flash Memory, Random Access Memory, Read Only Memory

4. The inputs for the following logic circuit are as shown in the following truth table:



A	B	C
0	0	
0	1	
1	0	
1	1	

In the above table, what are the output values for column C from top to bottom respectively?

(1) 0,0,0,0

(2) 0,1,0,1

(3) 1,0,1,0

(4) 1,1,1,1

5. What is the binary equivalent to decimal 101?

(1) 1010101₂

(2) 1011101₂

(3) 1100100₂

(4) 1100101₂

6. A computer stores the binary number 01000010. What is the decimal equivalent of this number?

(1) 64

(2) 65

(3) 66

(4) 67

7. The storage capacity of a digital camera is 16 GB. What is the maximum number (approximately) of 1 MB sized photos that can be stored in this camera?

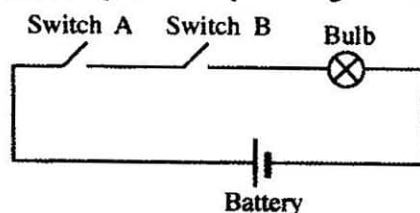
(1) 16

(2) 62

(3) 16000

(4) 16 million

8. Consider the following circuit representing the control of a bulb using the two switches A and B:



Which of the following logic gate(s) best illustrates the operation of the above circuit?

- (1) (2) (3) (4)

9. Which of the following icons is used in word-processing to increase the font size of a selected text in a document?

- (1) (2) (3) (4)

10. Which of the following facilities is/are available in word-processing software?

- A - Find and Replace
B - Mail merge
C - Spell check and thesaurus

- (1) A only (2) A and B only (3) B and C only (4) All A, B and C

11. Consider the equation $y = ax^2 + bx + c$, found in a word-processed document.

Which of the following features of the word processor is used to obtain the appearance of the character 2 in the equation?

- (1) justification (2) outline (3) subscript (4) superscript

12. Which of the following tools available in spreadsheet software will help to enter formulae in the correct format?

- (1) Format Template (2) Format Wizard (3) Function Template (4) Function Wizard

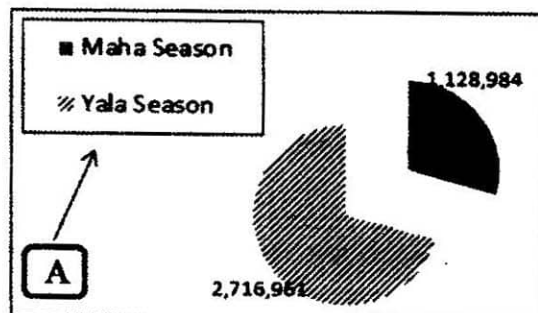
13. The following is an extract of a spreadsheet containing the marks obtained by 50 students in a class where students follow different aesthetic subjects:

	A	B	C	D
1	Name	Marks for the aesthetic subject		
2		Western Music	Dancing	Oriental Music
3	Kasun	80		
4	Meena		66	
5	Anwer	75		
...
51	Nimal			80
52	Shoba	88		
53	No. of Students			

What is the function that could be used in Cell B53 to determine the number of students who followed the Western Music subject?

- (1) Average() (2) Count() (3) Rank() (4) Sum()

14. Paddy production (in metric tons) in Sri Lanka for the year 2012 is illustrated in the following pie-chart prepared using a spreadsheet software:



Which of the following parameters has to be set to change the appearance of the section denoted by 'A' in the chart?

- (1) Data (2) Label
(3) Legend (4) Title

15. Consider the following statements regarding presentation software:

A - Pressing Ctrl+N keys will create a new presentation.

B - Pressing the key N within a slide show will display the next slide.

Which of the following is true regarding the above statements?

(1) A is correct and B is incorrect.

(2) A is incorrect and B is correct.

(3) Both A and B are correct.

(4) Both A and B are incorrect.

16. Which of the following is the most suitable field for the primary key of a database table used for storing data about students in a school?

(1) class

(2) date of birth

(3) student admission number

(4) surname

● Consider the following database table to answer questions 17, 18 and 19. This table shows the data about items currently available in a sports goods shop.

Item_Num	Item_Name	Quantity	Unit_Price
G001	Cricket Bat	5	2,500
G002	Football	20	1,500
G003	Chess Board	5	2,000

17. How many records are there in this table?

(1) 3

(2) 4

(3) 12

(4) 16

18. How many fields are there in the table?

(1) 3

(2) 4

(3) 12

(4) 16

19. Which is the most appropriate data type for 'Item_Num'?

(1) Boolean

(2) Currency

(3) Number

(4) Text

20. Consider the following software:

A - DOS

B - Firefox

C - Microsoft Windows

D - Linux

Which of the above are operating systems?

(1) A, B and C only (2) A, B and D only (3) A, C and D only (4) B, C and D only

21. Consider the following functions:

A - Checking spellings in a document

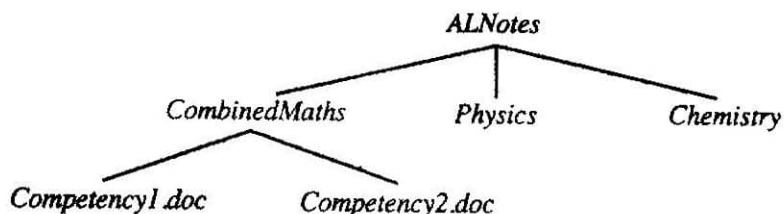
B - Managing the processes that run on the system

C - Providing an interface to the user

Which of the above are functions of an operating system?

(1) A and B only (2) A and C only (3) B and C only (4) All A, B and C

22. Given below is a user's directory tree on the hard disk of a computer:



In the above directory tree structure, ALNotes, CombinedMaths, and Competency1.doc are respectively

(1) a file, a root directory and a sub-directory.

(2) a sub-directory, a file and a root directory.

(3) a sub-directory, a root directory and a file.

(4) a root directory, a sub-directory and a file.

23. Consider the following URL:

http://www.nie.lk/index.html

A B C

Which of the following correctly identifies the parts A, B and C of the above URL?

- (1) A = domain name, B = page, C = protocol
- (2) A = domain name, B = protocol, C = page
- (3) A = protocol, B = domain name, C = page
- (4) A = protocol, B = page, C = domain name

24. Which of the following is an internet search engine?

- (1) Google (2) Microsoft Windows (3) Open Office (4) Ubuntu

25. Consider the following statements:

A - Each web site has a unique Uniform Resource Locator (URL).

B - Hyperlink is an element in an electronic document that connects to another place in the same document or an entirely new document.

C - The hypertext transfer protocol (http) is used in the web to transfer data.

Which of the above statements are true?

- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C

26. Consider the following paragraph with blanks:

Mohamed has been asked to find the harmful effects of pesticides. He sits at a computer and starts a(A)..... to access the internet and through it launches a(B)..... Then in the(C)..... he types the text "harmful effects of pesticides".

Which of the following is most suited to fill the above blanks respectively?

- (1) A = search box, B = search engine, C = web browser
- (2) A = search engine, B = search box, C = web browser
- (3) A = web browser, B = search box, C = search engine
- (4) A = web browser, B = search engine, C = search box

27. Which of the following media provides the highest speed of communication?

- (1) co-axial cable (2) fiber optic cable (3) radio-wave (4) twisted pair cable

28. Which of the following media provides the highest level of mobility for a user of a modern laptop within a LAN?

- (1) co-axial cable (2) fiber optic cable (3) radio-wave (4) twisted pair cable

29. Which of the following is not useful for a desktop computer in connecting to the Internet?

- (1) email software (2) Internet Service Provider (ISP)
- (3) network interface card (4) router

30. Which of the following cannot be used to connect a few laptops together in a LAN?

- (1) external disk drive (2) hub (3) router (4) switch

31. An organization purchased a word-processing software (X) from a shop. The same organization requested a software development company to develop an accounting software (Y) for its accounting activities. -

Which of the following is true in this scenario?

- (1) X is an off-the-shelf (packaged) software and Y is a tailor-made software.
- (2) X is a tailor-made software and Y is an off-the-shelf (packaged) software.
- (3) Both X and Y are off-the-shelf (packaged) software.
- (4) Both X and Y are tailor-made software.

32. Consider the following statements:

A - Debugging is the process of correcting errors in a computer program.

B - Violation of programming language rules results in syntax errors.

Which of the following is true regarding the above statements?

- (1) A is false and B is true. (2) A is true and B is false.
- (3) Both A and B are false. (4) Both A and B are true

53. An IF statement in a programming language is an example of a control structure.
Which of the following is most suitable to fill the above blank?
(1) loop (2) repetition (3) selection (4) sequence
54. Which of the following is not considered as an example of misuse of an ICT system?
(1) Creating a blog site
(2) Sending spam
(3) Spreading malicious gossip on social media sites
(4) Spreading viruses
55. Spam is
(1) a Trojan horse. (2) a type of encryption.
(3) a type of a virus. (4) unsolicited e-mail sent to many recipients.
56. Which of the following is an example for Repetitive Strain Injury?
(1) addiction to on-line chatting (2) addiction to social media sites
(3) back pain (4) malware infections
57. (An individual wants to protect his home computer from virus infections. Which of the following will not help in that regard?
(1) Avoiding download of programs from unreliable web sites
(2) Avoiding installation of pirated software on the computer
(3) Using encryption techniques for storing and transferring data
(4) Using malware protection software
58. Which one of the following is the most unlikely consequence of a virus infection on your home computer?
(1) Computer not responding to user actions (2) Permanent damage to computer hardware
(3) Slowing down of Internet access (4) Software failing to work properly
59. Which of the following is the most appropriate tool to protect your computer from unauthorized remote access?
(1) A firewall (2) A switch (3) A virus scanner (4) Anti-spam software
60. Prolonged use of computer causes eye strain that can lead to blurred vision and headaches.
Which of the following will reduce eye strain?
A - Setting the brightness and the contrast of the monitor to its maximum value
B - Taking regular breaks during computer usage
C - Using appropriate lighting and window curtains to avoid glare
(1) A and B only (2) A and C only (3) B and C only (4) All A, B and C