

**Third Term Test - Grade 12 - 2018**

Index No : ..... **General Information Technology I** **One Hour**

**Important**  
Answer all questions.

- 1) Which of the following is true regarding the evolution of computer?
  - i) Price increased , Capacity decreased , Increasing processing speed, size increased
  - ii) Price decreased, Capacity decreased , Increasing processing speed, size decreased
  - iii) Price decreased, Capacity increased , Increasing processing speed, size decreased
  - iv) Price increased, Capacity increased , Increasing processing speed, size increased
  
- 2) Mrs. Sudharma has conducted video conference with her son who lives in abroad, using web camera. In this scenario, the camera serves as a/an
  - i) Storage device only    ii) Input device only    iii) Output device only    iv) Input/output device
  
- 3) Which of the following statement /statements are correct regarding the network hub and the network switch?
  - A. data transmission speed in a network switch is higher than Hub
  - B. A hub is spread data entire network
  - C. A switch send data to relevant computer
  - D. network hub is used simplex data transmission mode and network switch is used full duplex data transmission mode
  - i) A, B, C only            ii) All A, B, C,D            iii) B, C, D only            iv) A, C, D only
  
- 4) Which of the following is most important, when connecting a computer to Local area network?
  - i) Router            ii). Network Interface Card            iii) Computer Screen            iv) Modem
  
- 5) Which of the following devices with highest capacity and highest access speed?
  - i) Magnetic tape , Random access memory            ii) Magnetic tapes , Memory registers
  - iii) Cache memory , Hard disk            iv) Hard disk , Cache memory
  
- 6) A privet company uses finger print scanner machine to mark their daily attendance. Identify the input, process and output in the above scenario.
  - i) finger print, check database, mark attendance
  - ii) check database, finger print, mark attendance
  - iii) mark attendance, check database, finger print
  - iv) check database, mark attendance, finger print
  
- 7) Which of the following is not regarding demerits of information communication technology?
  - i) Spreading virus

- ii) Creating blog site
- iii) building unsuitable friendships through social media
- iv) publishing edited photograph of individuals affecting their personal life

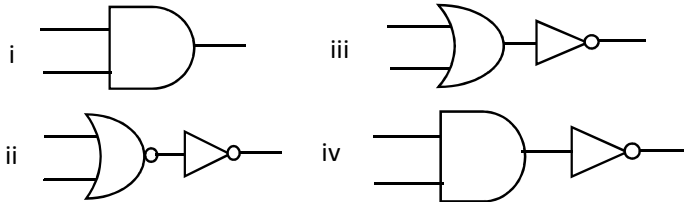
8) Nimal purchase a computer for his son. there was a label as follows:

Processor	3(a)...
Capacity of hard disk	40GB
Memory	2GB

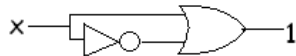
Which of the following is suitable for blank (a) regarding speed of processor?

- i) Gb                      ii) Hz                      iii) GHz                      iv) GBz
- 9) The decimal equivalent of binary  $1010_2$  is,
- i) 5                      ii) 6                      iii) 10                      iv) 12
- 10) 2 TB of memory is equivalent to,
- i)  $2^{10}$  GB                      ii)  $2 \times 2^{20}$  MB                      iii)  $2 \times 2^{21}$  KB                      iv)  $2^{10} \times 2^{10}$  MB
- 11) Character encoding schemes are used to represent symbols and character within computer. if 1001000 represented H in a coding system , which of the following is represented by 1000010?
- i) A                      ii) B                      iii) C                      iv) D
- 12) Which of the following is the most likely logic circuit for the given truth table.

X	Y	F
0	0	1
0	1	0
1	0	0
1	1	0



13) Which Boolean relation below gets verified by the logic circuit given below.?



- i)  $X.\bar{X} = 1$                       ii)  $X+1 = 1$                       iii)  $X+\bar{X}=1$                       iv)  $X.1 = 1$
- 14) .....is a service of a internet. Which of the following terms is appropriate for blank?
- i) Email                      ii) IP Address                      iii) Protocol                      iv) web browser
- 15) Which of the following is incorrect regarding IP address?
- i) It can be assign same IP address for several computers in a network.
  - ii) Each machines requires a unique address called IP to connect to the internet
  - iii) IP address is provided by internet service provider
  - iv) There are four values separated by decimal dotted in range 0-255 in a IP address.

16) An e-mail message was closed while editing by Kamal, before it finish,. Which of the following folder that email stored?

- i) Inbox                      ii) Out box                      iii) Draft                      iv) Trash
- 17) Consider the following statements;
- a) uniform resource locator is used to identify a web site uniquely
  - b) Hyperlink is used to connect to a whole document or to a specific element within a document
  - c) Hypertext transfer protocol (http) is used to share web data
- Which of the following is / are correct?
- i) a and b only                      ii)) a and c only                      iii) b and c only                      iv) All a , b and c

18) A web site is .....①..... in a web server. Web server computer is uniquely identify by using ...②.....  
 ...③..... is used to identify a file in web server and web browser is used to view that files.

Which of the following is correct for the blanks ;① ,② and ③ ?

(Uniform resource locator (URL), hosting, IP address, domain name)

- i) URL, hosting, IP address
- ii) hosting, IP address, URL
- iii) hosting, IP address, domain name
- iv) URL, hosting, IP address

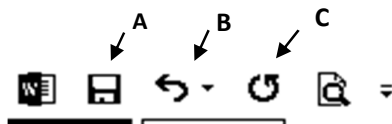
19) <http://www.edupub.gov.lk/e-books/english/ict.pdf> is/ an

- i) IP address
- ii) Uniform resources locater
- iii) Protocol
- iv) Service of a internet

20) Which of the following statement is incorrect regarding Word processing document?

- a) it can be paste several time when copied once.
  - b) it can't be get deleted item
  - c) it can be move a word using cut & paste
- i) b only      ii) a and c only      iii) b and c only      iv) All a,b,and c

21) Which of the following statements are correct regarding the icons A,B and C



- i) redo, save, undo
- ii) Save, undo, redo
- iii) Undo, sort, redo
- iv) Undo, save, redo

22) In word processing software , which of the following keyboard shortcut is used to center alignment respectively

- i) Ctrl + A
- ii) ctrl + E
- iii) Ctrl + J
- iv) Ctrl + C

23) Which icon in electronic presentation software is used to start slide show from first slide?

- i)
- ii).
- iii)
- iv)

24) Which icon in electronic presentation software is used to manage motion effect that occur in slide show view when you move from one slide to next ,during presentation.

- i) Slide Transition
- ii) Animation Objects
- iii) Animation Scheme
- iv) Slide Design

25) Consider the following statements related to electronic presentation

- A. The key B can be used to appear black slide in slide show view.
- B. The short cut key combination Ctrl + M can be used to insert a new slide to a presentation.

Which of the correct according to above statements,

- i) A is correct and B is incorrect
- ii) both A and B are incorrect
- iii) A is incorrect and B is correct
- iv) both A and B are correct

26) What is the feature which makes relationship between two tables in data base management?

- i) fields are should not equal of two tables
- ii) at least one field should equal of two tables
- iii) All the fields are should equal of two tables.

iv) number of fields are should equal of two tables

27) Consider the following statements related to electronic Database

- A- The key which consists of two or more columns of a table uniquely identifies a record is called Composite Key.
- B- Efficiency of a database can be increased by increasing data redundancy
- C- A column or collection of columns in a table when records can be identified uniquely is called primary key.

Which of the following is/are correct?

- i) A only      ii) A and C only      iii) A and B Only      iv) All A ,B and,C

• Use the following table to answer questions 28and 29

Pro num	Item name	Quantity	Unit price
S001	Pencil	4	15
S002	Pen	7	20
S003	Pencil box	8	200

28) Select the correct pair of values that represent the number of records and number of fields respectively

- i) 4 , 4      ii) 3 , 4      iii) 4 , 3      iv) 3 , 3

29) Which of the following is most suitable data type for Pro\_Num

- i) Boolean      ii) Currency      iii) Number      iv) Text

• Questions 30, 31,32 are based on the following spreadsheet segment

	A	B	C	D	E	F	G
1	ආශ්‍රිතය	ඒකක ගණන	ඒකක මිල	මුළු වටිනාකම	වට්ටම	ලද්දි වටිනාකම	
2	Monitor	3	3500				
3	Digital camera	4	16500				
4	UPS	2	4500				
5	Mother board	2	10500				
6	Flash Drive	8	4900				
7							
8							

30) Which of the following formula should be entered in D2 ?,

- i) B2\*C2      ii) =B2,C2      iii) =B2:C2      iv) =B2\*C2

31) Which of the following formula should be entered in E2 to get discount price when offer 5% on total cost?

- i) =D2/100\*5\*B2      ii) =D2\*5%\*B2      iii) =D2\*5%      iv) D2\*5%\*3

32) Which of the following formula should be entered in F7 to get total of final cost?

- i) =SUM(F2:F6)      ii) =F2.F6      iii) =TOTAL(F2:F6)      iv) =COUNT(F2..F6)

33) Consider the following statement regarding HTML tags;

- A - <a> tag is used to create hyperlinks.
- B - <font> tag is used to formatting text..
- C - <ol> tag is used to create unordered list .

Which of the above is/are correct?

- i) A only      ii) A and B only.      iii) B and C only.      iv) All A, B and C

34) Which of the followings shows the file format of image file only.

- i). DOCX, MP3 , PNG      ii). RAW, JPEG, BMP
- iii). PNG, RAW, MP3      iv). PPTX, BMP, PNG

35) Which of the following is suitable for blank (a)?

.....(a)..... will study the extensively and identify requirements, inputs and outputs of the system.

- i) Web designer
- ii) System analyst
- iii) Network administrator
- iv) Computer Hardware engineer

36) Consider the following devices.

- A – Mouse
- B- Touch screen
- C – External DVD writable drive

Which of the above can be used as both input and output devices

- i). A and B only
- ii). A and C only
- iii). B and C only
- iv). A,B,C all

37) Which of the following is used to secure computer from physical and logical issues?

- i) Using Uninterrupted Power supply and password
- ii) Using Uninterrupted Power supply and surge protector
- iii) Using Firewall and surge protector
- iv) Using Antivirus software and pass word

38) The software which can download free from internet and as well as user has permission to change interface, is called:

- i) Proprietary software
- ii) Application software
- iii) Open source software
- iv) Commercial software

39) Which of the following can be potential source of computer viruses.

- A - Computer viruses
- B - Scanner
- C - Flash drive

- i). A and B only
- ii) A and C only
- iii) B and C only
- iv) A,B and C all

40). Consider following statements:

- A. Hardware specification
- B - Vendor reputation
- C - Warranty period and service after sale

Which of the above statements is/are useful when purchasing a computer?

- i). A only
- ii) A and C only
- iii) A and B only
- iv) All A ,B and C



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**Provincial Department of Education - NWP**

**GIT E II**

**Third Term Test - Grade 12 - 2018**


Index No : ..... **General Information Technology II** **Two Hours**

**Important**  
**Answer four questions only.**

- 01) a) Draw the symbol of AND logic gate and write the truth table.
  - b) Draw the logic circuit for the following statement.  
 $F = (A \text{ AND } B) \text{ OR } (\text{NOT } C)$
  - c) Convert the binary number  $1010111_2$  into the decimal number. Write steps.
  - d) The following statement is about a computer system. Fill in the blanks using the given words in the brackets.  
 .....A..... gives the interface for a user to use the computer. ....B..... supports to the resource management of the computer. ....C..... is used to fulfill the specific tasks of the user. ....D..... is an example for it.  
 (Windows 7, Utility programs, Operating systems, Application software, Word processing software, Language translator programs)
  - e) It is planned to use a fire protection system with three sensors in a hospital for the protection of the hospital. The three sensors are,  
 A - Flame identification sensor  
 B - Smoke identification sensor  
 C - Temperature identification sensor which is greater than  $90^{\circ}\text{C}$   
 At this point the emergency alarm rings when the other two or one activated with the flame identification sensor.  
 Create the logic circuit and the relevant Boolean statement to represent the above situation.
- 02) a) Fill in the blanks using the given words in the brackets.  
 (Forward , IP address , E-mail address , Attachments , webmail , Backward , Domain name)
    - i. .... is the number for assign to the internet connected computer.
    - ii. You should have an ..... for e-mail transfer.
    - iii. There should be an e-mail software such as ..... To send or receive emails.
    - iv. .... are the separate files that are not connected to the mail.
    - v. Sending an e-mail for any other person which is received by you is called .....

b) Consider the following HTML source code and the relevant output. Fill in the blanks using the given tags which are necessary for source codes.

List:- { hr , tr , th , ol , ul , href , src , body , p , table }

කේතය	ප්‍රතිදානය												
<pre> &lt;html&gt; &lt;head&gt; &lt;title&gt; ABC Turtle Conservation Centre &lt;/title&gt; &lt;/head&gt; &lt;...1... &gt; &lt;h2&gt; ABC Turtle Conservation Centre &lt;/h2&gt; &lt;img ...2... = "abc.jpg" height="100px" width="200px"&gt; &lt;...3...&gt; ABC Turtle Conservation Centre is located at Colombo 5 in the western province.&lt;/p&gt; &lt;h4&gt; Turtles are in danger. &lt;/h4&gt; &lt;...4...&gt; &lt;...5... border=2&gt; &lt;caption&gt; What we did in last 3 years &lt;/caption&gt; &lt;...6...&gt; &lt;...7...&gt; Year &lt;/...7...&gt; &lt;...7...&gt; Type &lt;/...7...&gt; &lt;...7...&gt; Number conserved &lt;/...7...&gt; &lt;/...6...&gt; &lt;tr&gt; &lt;td&gt; 2012 &lt;/td&gt; &lt;td&gt; Adults &lt;/td&gt; &lt;td&gt; 40 &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt; 2013 &lt;/td&gt; &lt;td&gt; Off springs&lt;/td&gt; &lt;td&gt; 80 &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt; 2014 &lt;/td&gt; &lt;td&gt; Eggs&lt;/td&gt; &lt;td&gt; 100 &lt;/td&gt; &lt;/tr&gt; &lt;/table&gt; &lt;h4&gt; &lt;...8... type= "circle"&gt; &lt;li&gt; Let's save turtles by refusing&lt;/li&gt; &lt;/ul&gt; &lt;...9...&gt; &lt;li&gt; Turtle eggs &lt;/li&gt; &lt;li&gt; Turtle soup&lt;/li&gt; &lt;/ol&gt; &lt;/h4&gt; More details &lt;a ...10... = "http://ABC.MNET.LK" &gt; Young Zoologists Association &lt;/a&gt; &lt;/body&gt; &lt;/html&gt; </pre>	<hr/> <h2>ABC Turtle Conservation Centre</h2>  <p>ABC Turtle Conservation Centre is located at Colombo 5 in the western province.</p> <p><b>Turtles are in danger.</b></p> <hr/> <p>What we did in last 3 years</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Type</th> <th>Number conserved</th> </tr> </thead> <tbody> <tr> <td>2012</td> <td>Adults</td> <td>40</td> </tr> <tr> <td>2013</td> <td>Off springs</td> <td>80</td> </tr> <tr> <td>2014</td> <td>Eggs</td> <td>100</td> </tr> </tbody> </table> <p>o Let's save turtles by refusing</p> <ol style="list-style-type: none"> <li>Turtle eggs</li> <li>Turtle soup</li> </ol> <p>More details <a href="http://ABC.MNET.LK">Young Zoologists Association</a></p>	Year	Type	Number conserved	2012	Adults	40	2013	Off springs	80	2014	Eggs	100
Year	Type	Number conserved											
2012	Adults	40											
2013	Off springs	80											
2014	Eggs	100											

- 03) a) The following table shows the data which are related to annual inter-house sports, in a school. Athletes can select more than one event.

Index No	Student Name	Gender	Date Of Birth	House Name	Event Code	Event Name
12435	Suranga Gamage	Male	05-09-1998	Gemunu	A001	100 m
12435	Suranga Gamage	Male	05-09-1998	Gemunu	A002	100 m x 4
12534	Kasuni Bandara	Female	16-10-1999	Gajaba	A001	100 m





- What is the major difficulty that you face when creating the above table in a database. Explain briefly
  - Briefly explain what you suggest to avoid it.
  - If the numbers data type is appropriate for the Index no field, in the above table, write the most suitable data types for the representation of other fields.
  - What is the object of the Database management system that can be used to get a name list of all athletes after correcting the database?
- b) The worksheet which is used to make the paysheet of Goluwewa Vidyalaya is given below. Answer the questions using the given worksheet.

	A	B	C	D	E
1	<b>Goluwewa Vidyalaya</b>				
2	<b>Salary – January 2018</b>				
3	<b>Name</b>	<b>Basic Salary</b>	<b>Regional Development Bank Loan</b>	<b>GuruSetha Bank Loan</b>	<b>Paid Salary</b>
4	Mr. D.M.D.Basnayaka	37584.23	4500	10500	22384.23
5	Miss. A.P.S.Gunathunga	35465.28	2500	12500	20265.28
6	Mr. T.M.P.Thennakoon	44503.69	0	0	44303.69
7	Miss. W.A.C.Dissanayaka	39562.44	0	17800	21562.44
8	Mr. K.G.R.Karunanayaka	45615.35	0	0	45415.35
9	Total Basic Salary				
10	.....	200	1000		
11	.....	5			

- Write down the formula that should be written in B9 cell in order to calculate the total basics salary using cell address only.
- Write down the relevant formula as =function1(cell1:cell2) to get the total loan installment of Gurusettha into D9 cell.
- Name the formula which can be used to get the total number of teachers in to B11 cell.
- Monthly the welfare society of the teachers is charged 200 rupees form one person. Write down the formula to get the total amount of monthly received into C10 cell.  
The following equation is used to calculate the paid salary.  
Basic salary-Regional Development bank loan - Guru Setha loan installment – teacher welfare installment.  
By using the cell addresses write down the formula to get the Mr. Basnayake’s paid salary into E4 cell.
- Write steps to get paid salary of other teachers in to cell E8, using formula in cell E4



- 04) a) Answer the following questions.
- Write down 2 characteristics that should contain in a quality presentation.
  - Write 2 multimedia forms for a presentation.
  - Write a file extension which is used in a file name of an electronic presentation.
  - Match A and B.

A		B
1.		A.The view which is used to create presentations
2.		B.Permits to make the slides respectively.
3.		C.Here, all the things can be read clearly.
4.		D.Uses to present a presentation to the audience

- b) Write down the function of the short cut keys given below.

Shortcut keys	Function
CTRL + C	
CTRL + V	
CTRL + S	
CTRL + O	
CTRL + X	
CTRL + N	

- c) A part of a letter which is processed using the word processing software is given below.

Insert a table

A

In Microsoft Word, you can insert a table by in three ways: choosing from a selection of preformatted tables — complete with sample data — or by selecting the number of rows and columns that you want. You can insert a table into a document, or you can insert one table into another table to create a more complex table.

C

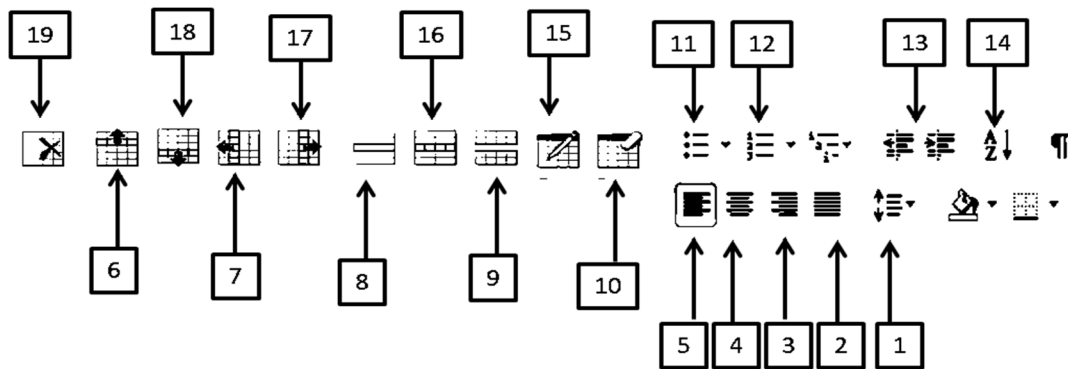
B

➤ Choose from a gallery of preformatted table templates.

➤ Use the Table

D Student details			
Name	School	Gender	Date of birth
A.A. Ruvinda bandara	Sumangala M.V	male	2000.06.20
P.A. Ashoka Basnayaka	Vijayaba N.C	male	2000.10.23
D.M.Hemathilaka	U.B.Wanninayaka Model School	Female	2000.08.06

A part of a formatting tool in MS Word software ribbon is given below. Study it and answer the questions.



Mention the label number for the following formatting tools  
(No marks will be given for more icons including the correct answer)

- i. Aligning the topic which is labelled/named as in to the center.
- ii. Formatting the paragraph which is named as B
- iii. Processing the line which is labelled as D in the above table.
- iv. To insert a new record below the record of A.A. Ruvinda Bandara.
- v. To separate the column Gender into two parts as Male and Female.
- vi. To make the list which is named as C

05) a) Information technology has converted to information & communication technology due to communication revolution done recently. It is well known that the reason for this is computer networking.

- i. Write 03 computer networks distributed according to the Geographical manner.
- ii. State two advantages and 02 disadvantages of networking.
- iii. Explain the functionality of a modem in brief
- iv. What is a firewall?. Describe in brief.
- v. Give two guided media and two unguided media which are used in computer networking.

b) Select form the list given below, the most appropriate term for each of the blanks labelled 1 to 6 in the following sentences.

- i. A collection of web pages relating to a topic is generally called .....
- ii. A ..... can be used to view a web page created in HTML.
- iii. A file in the web is uniquely identified by using a .....
- iv. .... used to link web page.
- v. The ..... instruct the web browser on how to display a web page.
- vi. The first page that is displayed when a web site is accessed is called a .....

(List – Home page, Website, Web browser, uniform resource locator, HTML elements, Hyperlink, Web authoring tools).

- 06) a) Select the most suitable term for A to E statements from the given list and write them with the label number.

(antivirus software / Malware / plagiarism / physical security / logical security / firewalls )

A	Inserting passwords to the computer system.
B	Publishing a document of a other person as an own document
C	Virus, Worms, Trojan Horse are example.
D	The client has locked the door in computer room.
E	Downloading the software with copy rights without getting permission or without payments.

- b) Digital Divide can be defined as the gap between those who have and haven't the knowledge about information technology. Write two steps taken by the government to minimize the digital divide.
- c) Online shopping is getting popular day by day. Write two advantages and two disadvantages of online shopping when comparing with the general shopping.
- e) Mention 3 technological qualities and 01 non technological qualities that should be consider when buying/purchasing a computer.

**Third Term Test – 2018**  
**General Information Technology**

**Answer – Part I**

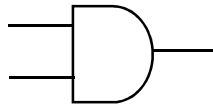
1	iii	11	ii	21	ii	31	iii
2	ii	12	iii	22	ii	32	i
3	i	13	iii	23	iii	33	ii
4	ii	14	i	24	i	34	ii
5	ii	15	i	25	iv	35	ii
6	i	16	iii	26	ii	36	iii
7	ii	17	iv	27	ii	37	i
8	iii	18	ii	28	ii	38	iii
9	iii	19	ii	29	iv	39	ii
10	ii	20	i	30	iv	40	iv

**Answer – Part II**

1) .

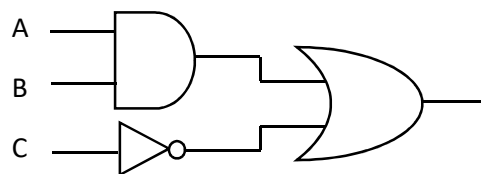
a)

A	B	A.B
0	0	0
0	1	0
1	0	0
1	1	1



(3 Marks)

b)



(3 Marks)

c)

$$\begin{array}{r}
 1 \quad 0 \quad 1 \quad 0 \quad 1 \quad 1 \quad 1 \\
 (64 \times 1) \quad + (32 \times 0) \quad + (16 \times 1) \quad + (8 \times 0) \quad + (4 \times 1) \quad + (2 \times 1) \quad + (1 \times 1) \\
 64 \quad + 0 \quad + 16 \quad + 0 \quad + 4 \quad + 2 \quad + 1 \\
 \hline
 87
 \end{array}$$

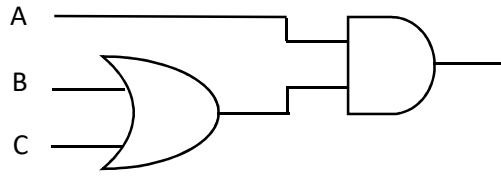
(2 Marks)

d)

- A – Operating system
- B – Utility software
- C – Application software
- D – Word processing software

(2 Marks)

e)  $A \cdot (B + C)$



(3 Marks)

2)

a)

- i. IP address
- ii. Email address
- iii. Web mail
- iv. Attachment
- v. Forward

(01 x 05 Marks)

b)

- i. Body
- ii. Src
- iii. P
- iv. Hr
- v. Table
- vi. TR
- vii. TH
- viii. UL
- ix. OL
- x. Href

(1 x 10 Marks)

3)

a) i. Data duplication (1 Marks)

Recording column data repeatedly .

Ex – The name ' Sunanda Gamage" has been repeated twice in the student name column.

(1 Marks)

ii. Creating a relational data base by deviding a single table to serveral tables. (1 Marks)

iii. Student Name - Text

Gender – Text

Date of birth – Text

House name – Text

Event name – Text

Event code – Text

(3 Marks)

iv. Report (1 Marks)

b)

i.  $=B4 + B5 + B6 + B7 + B8$  (2 Marks)

ii. Function 1 - = sum Cell 1 – D4 Cell 2 - D8  $\text{=SUM(D4:D8)}$  (2 Marks)

iii. Count (1Marks)

iv.  $= B10 * B11$  (1 Marks)

v.  $= B4 - C4 - D4 - B\$10$  (2 Marks)

4)

- a) .i. - Number of lines  
- Font size  
- Correct use of grammar and language  
- inserting images, drawings, table or graphs  
- Pay attention on target group (2 Marks)
- ii. Images/videos/ sound/ text/ Animation (1 Marks)
- iii. .ppt/ .pptx (1 Marks)
- iv. 1. – B / 2 – A /3.- D / 4. – C (2 Marks)

b)

Shortcut key	Functionality
CTRL + C	copy
CTRL + V	paste
CTRL + S	save
CTRL + O	open
CTRL + X	cut
CTRL + N	New document

(3 Marks)

c)

- i. 4  
ii. 2  
iii. 8  
iv. 18  
v. 16  
vi. 11 (6 Marks)

5) .

- a) i. LAN , MAN , WAN (3 Marks)
- ii. **Advantages**
- Date information can be shared between computers
  - Data can be stored in a smaller space
  - Centralized control of software (1 Marks)
- Disadvantages**
- Break down of the Network
  - Training requirements are needed
  - Difficulty in securing data (1 Marks)
- iii. A modem is used to convert analog signal into Digital signals and Digital signals into analog signals . (1 Marks)
- iv. It is a computer network security. A firewall functions as a secured barrier between Internet and the computer network. Firewalls are available both in software and hardware. (2 Marks)

- v. **Guided** - Twisted wire pairs , UTP/ STP  
 - Coaxial cables  
 - Fiber optical  
**UnGuided** - Radio waves – Wifi/ wimax / bluetooth  
 - Microwaves  
 - Infrared (2 Marks)
- vi. - Lower software cost - Fewer maintenance issues - Instant software updates. (2 Marks)

- b) i. Web site ii. Web browser iii. URL iv. Hyphrlink v. Markup tags (3 Marks)

6)

- a) A – Logical security  
 B – Plagiarism  
 C – Malware  
 D – Physical security  
 E – Piracy (5 Marks)

- b) - Establishing computer centers in rural area school  
 - Establishing computer resource centers  
 - Establishing vidatha, Nenasala Centres (3 Marks)

c) Advantages

- Open 24 hours a day
- Can purchase goods from local or international market
- Able to connect any time and any where
- Ability to pay using electronic payment method (2 Marks)

Disadvantages

- Payment method will be complicated
- Difficult to select some good such as dress (1 Marks)

d) Hardware specification

- Processor speed
- RAM capacity
- Hard disk capacity
- VGA (3 Marks)

Non technical factors

- The reputation
- Responsibility time (1 Marks)