

Second Term Evaluation - 2025

Grade

11

Information and Communication Technology I II

Time

3 hours

Part I

- Answer **all** questions.
- In each of the questions **1** to **40**, pick one of the alternatives (1),(2),(3),(4) which is **correct** or **most appropriate**.

- In which generation did operating systems with graphical user interface begin?
 - First generation
 - Second generation
 - Third generation
 - Fourth generation
- Which is not a feature of distance learning?
 - Digital library facilities
 - Online assignments and questionnaire
 - Consultation facilities
 - Learning on a pre-defined timetable
- The device which can be function as both input and output?
 - Joystick
 - Touchpad
 - Scanner
 - Touch screen
- Which of the following belongs to computer classification according to the technology?
 - Super computer
 - Digital computer
 - Mini computer
 - Micro computer
- Which of the following is considered as the main memory of the computer?
 - Random Access Memory
 - Read Only Memory
 - Secondary Memory
 - Cache Memory
- A port that can be used to connect the computer screen to the computer system is?
 - HDMI port
 - Serial port
 - Parallel port
 - PS/2 port
- What is the device which is used to connect two or more computer networks?
 - Network switch
 - Router
 - Network Interface Card
 - Modem
- Select the incorrect statement regarding Unicode coding system.
 - Can be used to represent letters as well as special characters and images.
 - Can represent 65536 characters which are different from each other.
 - Can represent characters of every language used in the world.
 - One character can be written using binary numbers made of eight bits.
- Hexa decimal equivalent to the binary number 100101011 is ?
 - 12B₁₆
 - 453₈
 - 1211₁₆
 - 2B₁₆
- If the 10th letter of the English alphabet 10 is represented by the ASCII code 01101010, which of the following represents the 9th letter I?
 - 69₁₆
 - 01001001₂
 - 73
 - 111₈

- 11) What is the answer which represents 4MB in bytes?
 i. 2^{12} ii. 2^{20} iii. 2^{22} iv. 2^{10}
- 12) What is the most important action that should be taken to retrieve a file which were stored in a computer hardware when an error occurred?
 i. Keeping a copy of the file in another folder of the computer.
 ii. Keep a backup file.
 iii. Always connect the computer to the Internet when using it.
 iv. Use a firewall.
- 13) If you format your computer what should be installed first to your computer?
 i. Antivirus software iii. Operating system
 ii. Software firewall iv. Hardware firewall
- 14) Which of the following get started first after booting a computer?
 i. Task manager iii. Basic Input Output System
 ii. Operating system iv. Antivirus software
- 15) What is an example for an empty tag in HTML?
 i. `` ii. `` iii. `` iv. `<a>`
- 16) Following list is inserted to a web page. What are the tags that could be used for this?
 1. Sinhala
 2. Tamil
 3. Muslim
 i. `,` ii. `,` iii. `<dl>,<dt>` iv. `<pl>,<pt>`
- 17) What are the HTML tags that should be used to create a definition list?
 i. `ol,dl,dt` ii. `ul,dl,ol` iii. `dl,dt,dd` iv. `dl,dt,li`
- 18) What is the shortcut key combination used to close a word document?
 i. `Ctrl+X` ii. `Ctrl+Q` iii. `Ctrl+W` iv. `Ctrl+C`
- 19) The function of the shortcut key combination `ctrl+H` is to,
 i. create header and footer iii. get help
 ii. use for hanging indetation iv. find and replace
- 20) Assume that the equation $X=n_1+n_2$ is inserted to a word document software. What is the tool that should be used to display 1 and 2 as shown in the given equation?
 i. Font size iii. Superscript
 ii. Subscript iv. Change font style
- 21) What is the answer when the equation $=2^3/(5-1^3)*5$ is inserted in a spreadsheet?
 i. 11 ii. 12 iii. 10 iv. 10.5
- 22) The shortcut key(s) that can be used to move from any cell to the cell A1 in a spreadsheet is/are?
 i. Home ii. `Ctrl+Home` iii. `Shift+Home` iv. `Alt+Home`
- 23) What is the function of a formula bar in a spreadsheet?
 i. Display formulae and content of a cell
 ii. Providing the dialog box to build formulae
 iii. To display the cell address of the active cell
 iv. To create formulae

- 24) Which of the following is not a valid function?
- =sum(1A:1C)
 - =sum(A1:E1,B2)
 - =sum(A1:A3,C1:C3)
 - =sum(A1,B1,C1)
- 25) What is the shortcut key combination that can be used to access slide show view in an electronic presentation?
- Home
 - Ctrl+Home
 - Shift+Home
 - Alt+Home
- 26) Which of the following has correctly described the function of the HTML tag Next ?
- When click on the page names "firstpage" ,it will be redirected to Next page.
 - The page "firstpage.html" is opened when click on the term "Next".
 - The image named as "a" is opened when click on the page "firstpage".
 - When click on the term "Next", it will be redirected to the Home page.
- 27) Select the answer which includes two consecutive steps respectively, after the design phase in the System Development Life Cycle.
- Coding the solution, testing the solution
 - Testing the solution, coding the solution
 - Testing the solution, deployment of the system
 - Identification of requirements, coding the solution
- 28) What is the information gathering technique used in system development, which provides a model of the system that is going to be built and get the feedback of the user ?
- Interviews
 - Document sample collection
 - Questionnaire
 - Prototyping
- 29) Which of the following includes the part of the uniform resource locator (URL) named as A,B,C respectively?
- <https://www.edupub.gov.lk/civic.pdf>
A
B
C
- Protocol, service, domain name
 - Service, domain name, resource
 - Resource, domain name, protocol
 - Protocol, domain name, resource
- 30) Nadeesha has mistakenly deleted an email which is most important to her when checking her emails. What is the folder that can be used to retrieve the deleted email?
- Trash
 - Inbox
 - Draft
 - Spam
- 31) Assume that the library information system that is going to be introduced to your school is already developed and tested. What is/are the best method(s) that can be used to deploy the particular system to your school?
- | | | |
|----------------------|------------------------|---------------------|
| A. Direct deployment | B. Parallel deployment | C. Phase deployment |
| i. A only | ii. B only | iii. B and C |
| | | iv. C only |
- 32) Select the statement which is not a feature of waterfall model?
- Identification of requirements should be done first.
 - Next phase is started after completing the previous place.
 - Final output could be an unexpected outcome.
 - Can use the knowledge gathered from previous stages for the next stages of the development process.

33) Select the invalid email address of the following.

- i. perera@hotmail.com
- ii. gaya68@gmail.com
- iii. 68Namal @gmail.com
- iv. adeesha@slt.lk

34) Select the answer which consists a correct IP address.

- i. 000.000.000.000
- ii. 150.143.258.78
- iii. 196.250.250.01
- iv. 193.210.17.27

35) What is the output of the simplified expression of NOT(3<6) OR ((7 MOD 4) >(5 DIV 3))?

- i. False
- ii. True
- iii. 1
- iv. 0

36) Select the correct identifier of the following.

- i. 11C - marks
- ii. Maths Marks
- iii. Repeat
- iv. st_number

37) Select the answer which consists of software that can be used as database management software?

- i. MS Access, MySQL, OpenOffice Base
- ii. MS Access, Excel, Oracle
- iii. Oracle, Word, MySQL
- iv. Oracle, OpenOffice Base, Excel

38) Select the correct statement(s) regarding database.

- A. Before inserting data, tables should be designed.
- B. Every table should consist a primary key to uniquely identify the records.
- C. Primary key always should not be null.

- i. A and B
- ii. B and C
- iii. A and C
- iv. A, B and C

39) Rainfall values of 7 days are stored in an Array called R. Which array element consists of the highest rainfall value?

10mm	70mm	60mm	100mm	200mm	80mm	105mm
R[3]		ii. R[4]	iii. R[5]		iv. R[6]	

40) What is the output of the following pseudocode?

Begin

x = 1

While x <= 5 do

print x

x = x + 1

End While

End

- i. 0 1 2 3 4 5
- ii. 1 2 3 4
- iii. 1 2 3 4 5
- iv. 1 2 3 4 5 6

Education Zone Gampaha

80

E

II

Second Term Examination - 2025

Grade

11

Subject

Information and Communication Technology - II

Part II

Name:-.....

Part II

The first question is compulsory. Write answers to 4 questions including the first question.

(01)

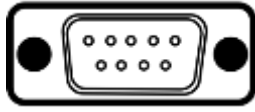



- (i). The report on the animal population in your village for the month of June 2025 has been forwarded by the Gramsewaka to the WhatsApp group of your village. These facts were collected from **50 houses in the village**, some of which are given below. Write down the two information that the farmer gets from this.

The Animal	Number
Monkey	200
Pithawa	50
Monera	20
Wild Boar	30
Total Number of Animals	300

- (ii). In view of the prevailing security situation, the Information Technology Division of Urapola Central College and the Old Boys Association jointly installed a fingerprint machine and a face-recognition camera near the school gate to record the attendance of the students. When Sachithra, a class 11 student, put his finger on the fingerprint machine, the machine displayed a message and issued a voice.

Write two input devices and two output devices each in this device.

- (iii). On Samanmali's birthday, her father gave a desktop computer as a gift and when she removed the pack of the computer and checked the ports of the system unit, she found a table with following icons given on the table. The tasks that she had to perform are also mentioned in the table below. Match the label and the work letter related to the appropriate one for those tasks.

P	Q	R	S	T
				

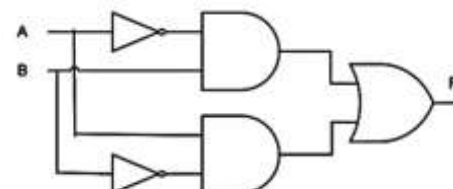
- computer Connecting a printer to a.
- Connecting the computer to the Internet.
- Connecting the monitor to a computer.
- Connecting the speaker to a computer

(iv).

- Convert 2025 into equivalent hexadecimal number.
- Convert 2025₈ to its equivalent binary number.

(v).

- Draw the logical circuit related to the Boolean expression $F = A.B + B.C + A.\bar{B}$.
- Draw the truth table related to the logical circuit shown in the figure.



(vi).

(a). During the initial boot process of a computer,A.... is read from the first storage device ...B.... identified by the program ...C.... The operating system then accesses ...D..... Write in the appropriate order of labels for the above blanks.

(BIOS, POST, Boot sequence, Master Boot Record –MBR , RAM, ROM)

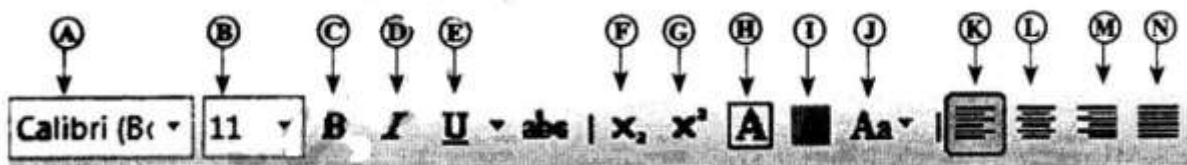
(b). Write a work performed by anti -virus software, a utility software in an operating system.

(vii).

(a).Note the following sections that have been formatted and processed using a word processing software.

Before adjusting	$F=5X3+2X+C$
After adjusting	<u>$F=5X3+2X+C$</u>

Mention four formatings here. (Specify the character/label related to the icon)



(b).What is the facility to prepare an article created using word processing software to be sent to many people at the same time?

(viii).

(a) Note **the following ARRAY M.**

```

BEGIN
T=0
x=0
WHILE x<4
    T=T+M[x]
    x=x+1
END WHILE
DISPLAY T
END

```

30	50	15	25	35
M[0]	M[1]	M[2]	M[3]	M[4]

What is the output from the above pseudocode?

(b).What would be the output if $x=x+2$ was applied instead of $x=x+1$?

(ix) A web page should include a picture of your school gate (gate.jpg) and when that picture does not show up for any reason, it is necessary to show 'OUR SCHOOL GATE' as an alternative word. Indicate the appropriate html code for this.

(x).

(a). In relation to a database, fourth column better write in the relevant letters which part of the describes the topics mentioned in the second column of the table below.

A	Query	P	Input data into a table.
B	Reports	Q	Data is stored.
C	Table	R	Information will be printed.
D	Form	S	Analyzes the data.

(b). appropriate data Writetypesfor the following with the relevant labels .

- WhatsAppnumber of a student
- School Fees
- A person's age
- Date of Admission

(02)

- (a). You have prepared an educational tour for the 11th grade students of the school and a part of the spreadsheet prepared for it is given below.

	A	B	C	D	E	F	G	H
1	TRIP TO NUWARAELIYA							
2	2025.08.01							
3	STUDENT FEE			1750	Bus fare	35000		
4	BUS NO	CLAS S	NO OF STUDEN TS	TOTAL INCOME	BALANCE PAY AFTER BUSES	FOR FOODS	BALANCE	
5	NB-1111	11A	25	43750	8750	5000	3750	
6	NC-1233	11B	33	57750	22750	6600	16150	
7	NB-3344	11C	35	61250	26250	7000	19250	
8	ND-3267	11D	40	70000	35000	8000	27000	
9	NF-2342	11E	32	56000	21000	6400	14600	
10			TOTAL	288750	113750	33000	80750	
11								
12	FOOD PACK	200			TOTAL BUS FAIR		175000	

- The fee per student is Rs. 1750 which is recorded in The D3 cell. Write the formula required to find the total income of class 11A students in The D5 cell using only the cell references. (This formula should be able to copied for all classes)
- Bus fare is Rs. 35000. After paying class 11A bus fare using only cell references, write down the formula required to find the remaining amount in H5 cell using cell references only. (This formula should be able to copied for all classes)
- A packet of food costs Rs. 200 which is inserted in cell B12. Write the formula to record the amount spent on class 11A food in the cell F5 using only cell addresses.(This formula should be copied for all classes)
- Write down the formula required to record the remaining amount in the cell G5, after spending on food. (This formula should be copied for all classes)
- Write a formula using functions to find the total income of the five classes in the cell D10.
- Write a formula using functions to find the total bus fare in the cell G12.
- Write a formula using functions to find total remaining amount of money in the cell G10.
- Write a formula using functions to find the maximum number of students in the class in the cell B15.
- Since it has been announced that a 5% discount will be given on the total price of the bus fare, write the formula to be entered in cell G15 to find the amount of the discount.

- (b). Following is a table used to draw the graph of the function $Y=x^2+2x+1$.

	A	B	C	D	E	F	G	H	I
1									
2	x	-3	-2	-1	0	1	2	3	
3	y								

- Write the formula to be copied in the cell B3 to find the value of y when $X = -3$.
- When the above formula is copied to H3, write the formula in the cell G3.
- After finding the y values corresponding to the x values, suggest a suitable graph type to create the graph of the function.

(03).

(a) Refer to the database tables shown below. These tables store data on the sales and supply of computer devices.

ITEM		SUPPLIER			ITEM_SUPPLIER			
ITEMID	ITEMNAME	SUPID	SUPNAME	TP	ITEMID	SUPID	DATE	QUANTITY
005	KEYBOARD	111	KAMAL	0777563584	005	113	2025/07/10	50
006	MONITER	112	NIMAL	0775563884	006	111	2025/07/11	25
007	MOUSE	113	SUNIL	0771563984	007	112	2025/07/14	65
008	CPU				007	113	2025/07/19	50
009	MOTHERBOARD				009	111	2025/07/19	80
					005	112	2025/07/20	10

(i) Write two fields for the primary keys with the names of the respective tables.

(ii) Write a composite key with the name of the respective tables.

(iii) Write a foreign key with the name of the respective tables.

(iv) Which table/table should be updated if 100 keyboards were purchased from Kamal on 21.07.2025?

Writethe record /recordsto be updated in the form of **Table Name→ (Field1 ,Field 2, .(.....**

(v) Which tables/table should be updated if a new supplier purchased 70 mouse on 22.07.2025 from,Amara whose ID is 111 and telephone number is 0777563584?

Writethe record /recordsto be updated in the form of **Table Name→ (Field1 ,Field 2, .(.....**

(b). Write down the maximum number ofcharactersthat can be represented by the followingcod ing systems.

(i) BCD

(ii) ASCII

(iii) EBCDIC

(iv) UNICODE

(c) Write down the decimal number represented by the BCD code 100101110101.

(04)

(a) Study the relevant case in the following paragraph thoroughly and answer the questions asked.

The management of DOMPE SUPER retail store has decided to install a computer-based system, DOMPE SUPER INFORMATION SYSTEM, to replace the existing manual transaction processing system in order to increase the efficiency of their store. The task was handed over to a software company called 11 Solution and its staff began the relevant task as follows. A meeting was held. On March 22, 2025, two officers of the institution, Aruna and Kamal, visited and inspected the activities of the institution, after which an interview was held with the manager and the treasurer of the institution. For several days, we contacted the institution in this way, gathered relevant information, and handed it over to Suranga, who designed the system.

A person named Sadamali developed the software and she herself re-checked the accuracy of the code. At the end of all the work, a cashier was brought in to the store to conduct an end-user inspection and it was confirmed that the system problems had been largely minimized. Naveen, who arrived at the trading institution on June 25, 2025, installed the developed system in the institution while the existing system remained as it was. After about two months, a person named Muditha came and made some minor changes to the system.

(i). Who has collected the information under identifying the requirements of the above system created under the system development life cycle? Write down a technique used for this.

(ii). Write down two tasks that Suranga is thought to have done in the system design phase.

- (iii). Write down the tests that have been done by sadamali and the cashier respectively on the system developed.
- (iv). Write two more such techniques, indicating which technique has been used to set up the system.
- (v). What function does Mudita perform in the system development life cycle?
- (vi). Mention two system development models in which such an information system can be developed.

(b) The following is a table showing the four stages of the system development life cycle of developing a new system and the four functions carried out under it.

Occasion	Functions
A	Observations
System Testing	B
C	Phased Installation
D	Updating the system


Write the answers required for labels A, B, C, D here.

- (05) Consider the html code segment for the web page below. Select from the list of words related to the blanks A to T.

Forbes 30 Under 30 Asia 2025


Sri Lanka's 'Wild Cookbook' in Forbes 30 Under 30 Asia List for 2025

Date: May 15, 2025 at 12:40 PM



F PROFILE

Charith N Silva
Founder, Wild Cookbook
Colombo, Sri Lanka



About the Achievement

Sri Lankan Chef, **Charith N. Silva**, the founder of 'Wild Cookbook', has been recognized in the **Forbes 30 Under 30 Asia List for 2025**.

Charith N. Silva - Quick Facts

Detail	Information
Name	Charith N. Silva
YouTube Channel	Wild Cookbook
Subscribers	10 million+
Instagram Followers	2.3 million+
Restaurant	Wildish (Colombo)

Milestones

1. Launched Wild Cookbook in 2020
2. Named to Forbes 30 Under 30 Asia in 2025

Reasons for Popularity

- Unique outdoor cooking style
- High-quality video production

Further Reading

Visit the official Forbes page for the full list: [Forbes 30 Under 30 Asia 2025](#)

LIST-[center, u, a ,p, target , img , body ,ol ,br ,b, alt, h2, li, table, tr ,td , ul,left, right, i, title]

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Forbes 30 Under 30 Asia 2025</title>
</head>
<..A..>
<..B..>
  <h1>Sri Lanka's 'Wild Cookbook'<..C..>in Forbes 30 Under 30 <..D..>Asia List for 2025</h1> </center>
  <p><..E..>Date:</..E..> May 15, 2025 at 12:40 PM</p>
  <center>
    <..F.. src="charith.jpg" width="500" height="300" ..G..="cookbook">
  </center>
  <..H..>About the Achievement</..H..>
  <p>Sri Lankan Chef, <strong>Charith N. Silva</strong>,
the founder of <em>'Wild Cookbook'</em>, has been recognized in the <@>Forbes 30 Under 30 Asia List for
2025</..I..>.</p>
  <..J..>Charith N. Silva - Quick Facts</..J..>
  <..K.. border="1">
    <..L..> <th>Detail</th> <th>Information</th> </..L..>
    <tr> <td>Name</td> <..M..>Charith N. Silva</..M..> </tr>
    <tr> <td>YouTube Channel</td> <td>Wild Cookbook</td> </tr>
    <tr> <td>Subscribers</td> <td>10 million+</td></tr>
    <tr> <td>Instagram Followers</td> <td>2.3 million+</td> </tr>
    <tr> <td>Restaurant</td> <td>Wildish (Colombo)</td> </tr>
  </..K..>
  <h2><..N..>Milestones</..N..></h2>
  <..O..>
    <li>Launched Wild Cookbook in 2020</li> <..P..>Named to Forbes 30 Under 30 Asia in 2025</..P..>
  </..O..>
  <h2>Reasons for Popularity</h2>
  <..Q..>
    <..R..>Unique outdoor cooking style</..R..>
    <li>High-quality video production</li>
  </..Q..>
  <h2>Further Reading</h2> <p> Visit the official Forbes page for the full list:
  <..S.. href="https://www.forbes.com/30-under-30/2025/asia/" ...T..="_blank">
    Forbes 30 Under 30 Asia 2025
  </a>
</p>
</body>
</html>
```

(06)

(a) Consider the following Pascal code segment.

Program diseven;

Var X: Integer;

Begin

X:=0;

while X<=10 do

Begin

writeln(X);

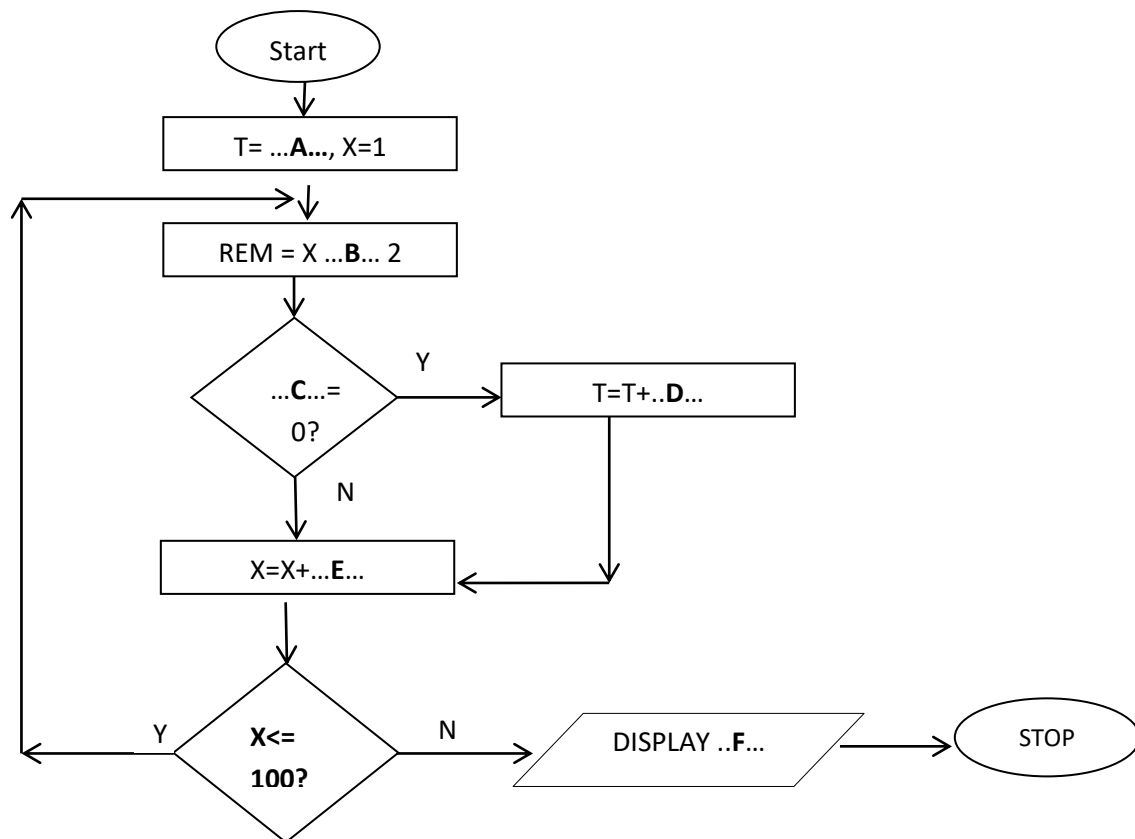
X:=X+2;

End;

End.

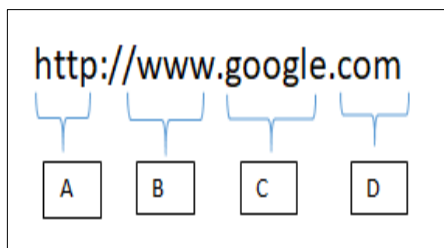
- (i). Write its output.
- (ii). How many times the statement **'writeln(X here); '** is repeated?
- (iii). If **X:=X+2;** is applied, instead of **X:=X+1;** write the output now.

(b) This flow chart shows the sum of the numbers from 1 to 100. Write the appropriate statement for the blanks A, B, C, D, E, F here.



(07)

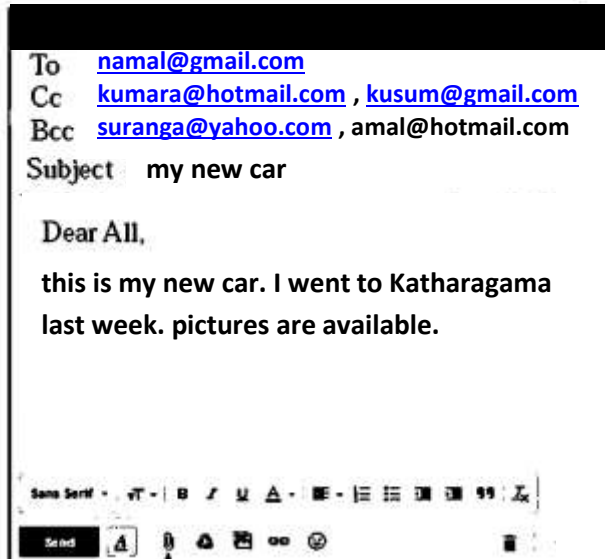
(a) Identify the sections A–H below and select the correct answers from the list given below




E	The websites required by the client have been deposited.
F	Converts URL into IP addresses.
G	Is used to uniquely identify a computer on the Internet
H	Belongs to troubleshooting and message sharing

List:[Domain Name Server, Top Level Domain Name, Protocol, IP Address, Sub domain, Domain Name, Web Server, World Wide Web, URL(Uniform Resource Locator),ICMP]

(b). Consider the following e-mail fragment. It depicts an opportunity used by Samanmali (samanmali@gmail.com) to inform her friends about the new car she has purchased.



Attachment

- (i) We rite the-.by Samanmali sent of the recipient of this letter address mail
- (ii) Mentionwho will receive a copy of this article .
- (iii) gets the Specify whoBlind . carbon copy
- (iv)  .Write a task performed by this symbol
- (v) .false the following statements are true or Specify whether
 - (A). .Namal knows that Suranga received a letter
 - (B). .Amal knows that Kusum received a letter
 - (C). .a letter Kusum does not know that Kumara received
 - (D). .Suranga knows that Amal received a letter