dag ම හිමිකම් ඇව්ටිම් / முழுப் பதிப்புரிமையுடையது / All Rights Reserved]

ை கிச்சுர்மவபுதிய பாடத்திட்டம்/New Syllabus

para களமதுள்ளது. Hone, Sri Lanka De**இலங்கைய் Examinista த**ி**தியைக்குமையா**ன உடிக Periode இருகை அமூக்கூலின்றத் இருகை கோக அமுக்கூலின்றத் இரு ஸ்ணக்களம்இலக்கைப் **Department of Example at applica** க்களம்

අධායන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2017 දෙසැම්බර් கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2017 டிசெம்பர் General Certificate of Education (Ord. Level) Examination, December 2017

තොරතුරු හා සන්නිවේදන තාක්ෂණය

தகவல் தொடர்பாடல் தொழினுட்பவியல்

Information & Communication Technology I, II

පැය තුනයි மூன்று மணித்தியாலம் Three hours

Information & Communication Technology I

I, II

I, II

Note:

- (i) Answer all questions.
- (ii) In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is correct or
- (iii) Mark a cross (X) on the number corresponding to your choice in the answer sheet provided.
- (iv) Further instructions are given on the back of the answer sheet. Follow them carefully.
- 1. Which of the following decimal numbers is equivalent to the binary number 01011,?
- (2) 35
- (3) 15
- 2. Which of the following octal numbers is equivalent to the binary number 111110110010,?
 - (1) 7552,
- (2) 2667,
- (3) 2557,
- (4) 7662,
- 3. The hexadecimal equivalent of 11101011000111010, is:
 - (1) DD63A₁₆
- (2) 1D63A₁₆
- (3) 1D33A,
- (4) 1D631,6

- 4. Consider the following statements:
 - A 2B₁₆ is equivalent to 53,
 - B 43₁₀ is equivalent to 101011,
 - C 101011, is equivalent to 53,

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
- 5. Which of the following communication media uses the reflection of light to transmit data?
 - (1) Unshielded Twisted Pair (UTP)
- (2) Optical Fiber

(3) Coaxial cable

- (4) Shielded Twisted Pair (STP)
- 6. Some devices serve as either input or output devices only while others serve as both input and output devices. Which of the following serve as output devices only?
 - (1) Touch screen display and scanner
- (2) Printer and webcam

(3) Printer and speaker

- (4) Touch screen display and barcode reader
- 7. Which of the following truth tables is equivalent to the logic circuit given below?



В	Output
0	1
1	1
0	1
1	0
	0 1 0

A	B	Output
0	0	0
0	1	0
1	0	1
1	1	0

(2)

A	В	Output
0	0	0
0	1	1
1	0	0
1	1	0

A	В	Output
0	0	0
0	1	1
1	0	1
1	1	0
	(4	4)

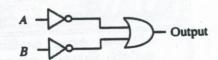
(3)

[see page two

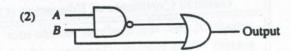


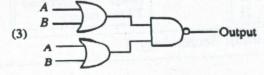


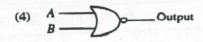
8. Which of the following logic circuits has a truth table equivalent to the truth table of the logic circuit shown on the right hand side?











9. Consider the following statements:

A - Managing the hardware

B - Providing User Interface

C - Providing Spreadsheet and Word Processing facilities

Which of the above are key services 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

10. Consider the following statements:

A - Register memory in a computer has a smaller capacity than that of a hard disk.

B - Data access speed of register memory is slower than the speed of a hard disk.

C - Per bit cost to store data in register memory is higher than the per bit cost to store data in a hard disk.

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

11. Consider the following statements:

A - Logging into a computer using a stolen user ID and password of another person

B - Downloading and installing a free and open source software without paying for a license

C - The manager of an online shop, selling a list of email addresses of his customers to a marketing company without the consent from the customers

Which of the above examples create ethical issues?

(1) A and B only

(2) B and C only

(3) A and C only

(4) All A, B and C

12. The following four icons labelled as P, Q, R and S are commonly used in word processing software to align text in a document.



Consider the following statements:

A - P aligns text to left and P aligns text to right

B - P aligns text to left and S aligns text only to right

C - Q aligns text to centre and S justifies text

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

13. Consider the following statements regarding tasks carried out on a spreadsheet file in a folder by a right handed user:

A - Place the mouse pointer on the file and single click the right button of the mouse

B - Place the mouse pointer on the file and double-click the right button of the mouse

C - Place the mouse pointer on the file and double-click the left button of the mouse Which of the above result/s in opening the spreadsheet file?

(1) A only

(2) B only

(4) A and C only

[see page three







14.	Consider t	he f	ollowing	statements	related	to	the	use	of	short-cut	keys	in	commonly	used	word	processing
	softwares:												THE PRINCE			

A - Ctrl + C is used to copy text/objects

B - Ctrl + A is used to select all text/objects in a document

C - Ctrl + V is used to paste text/objects already copied

Which of the above statements are correct?

(I) A and B only

(2) A and C only

(3) B and C only

(4) All A, B and C

15. What would be the number displayed, if formula =2^3+(5-3)*6/4 is entered in a cell of a spreadsheet?

(2) 8.5

(3) 11

(4) -1.25

Questions 16 and 17 are based on the given spreadsheet and information given below.

- * Circumference of a circle can be calculated with the formula 2π , where r is the radius of the circle.
- Assume that the value of π is given in cell C2.

	· · · · · · · · · · · · · · · · · · ·	dentification.	
	Radius	Circumference	π
	20	125.6637061	3.14159
i na	21	131.9468915	
	25	157.0796327	
	22	138.2300768	

16. What formula should be entered into cell B2 to calculate the circumference of the circle?

(1) = 2 * C * 2 * A 2

 $(2) = 2*$C2^$A2$

 $(3) = 2*C2^A2$

 $(4) = 2^{C}2^{A}2$

17. Which of the following will appear in cell A6 if the formula =SUM(A2:A5)/COUNT(A2:A5) is entered in cell A6?

(1) 1

(2) 17.6

(3) 22

(4) 88

- 18. Consider the following statements relating to a slide with multiple objects, created using a presentation software:
 - A The animation effects can be applied to multiple objects on a given slide
 - B The slide transition can be applied to the whole slide only
 - C The slide transition effect appears when slides change from one to the next during the slide show view Which of the above statements are correct?

(I) A and B only

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

Questions 19 to 22 are based on the following database tables that are used to store student subject marks.

Student Table

DoB	Name	Student_No	Class
20/11/95	Sarath	1001	1A
17/12/95	Kolitha	1002	IA
21/10/95	Kapila	1003	1A
18/12/95	Nalin	1004	1B

Subject Table

Subject	Labre
Sub_Code	Subject
01	Sinhala
02	Art
03	English

Marks Table

Sub_Code	Student_No	Marks
01	1001	85
02	1001	80
01	1002	65
03	1003	70

19. How many fields are in the Subjects table?

(2) 3

(3) 4

(4) 6

20. What would be the most suitable field as the primary key for the Student Table?

(1) Student_No

(2) DoB

(3) Name

(4) Class

21. What would be an example for a foreign key in the database?

(1) Sub_Code in Subject Table

(2) Sub_Code in Marks Table

(3) Marks in Marks Table

(4) DoB in Student Table

22. How many marks did Kapila obtain for English?

(1) 65

(2) 70

(3) 80

(4) 85

[see page four



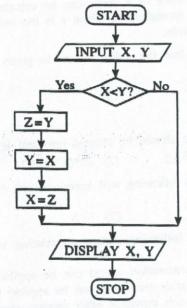


- 23. Consider the following statements related to database software:
 - A A collection of fields related to one object is called a record
 - B A collection of related tables is called a database
 - C A Foreign key of one table is the primary key of another table

Which of the above statements are correct?

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

24. Consider the algorithm in the following flowchart:



What values will be displayed for X and Y respectively, if the inputs are X = 10 and Y = 20 for the given flowchart?

- (1) 10, 10
- (2) 10, 20
- (3) 20, 10
- 25. Consider the following pseudocode with label P to find the product of numbers from 1 to 10.

product = 1

number = 0

repeat

number = number + 1

product = product * number

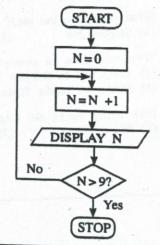
until P

Which of the following expressions is correct for label P?

- (1) number > 10
- (2) number < 10
- (3) number > = 10
- (4) number <= 10
- 26. Which of the following pseudocode segments is equivalent to the logic of the algorithm given in the flowchart?
 - (1) N=1while N<=10 N=N+1
- (2) for N=0 to 10 do display N

display N end while

- (3) N=0
 - while N<=10 display N N=N+1end while
- (4) for N=1 to 10 do display N



[see page five





27. Consider the following pseudocode:

```
X = 0
do
display '*'
X = X + 2
while X < 5
```

As the output of the above pseudocode, how many times the ' * ' will be displayed?

(1) 2

(2) 4

(3) 5

(4) 6

28. Consider the following pseudocode:

```
if average>70 then
if Sport_colour = 'True' then
Allrounder_award = 'True'
end if
end if
```

Which of the following is equivalent to the logic of the above pseudocode?

- (1) if average>70 AND Sport_colour = 'True' then Allrounder_award = 'True'
- (2) if average>70 OR Sport_colour = 'True' then Allrounder_award = 'True'
- (3) if average>70 then Allrounder_award = 'True'
- (4) if Sport_colour = 'True' then Allrounder_award = 'True'
- Use the following paragraph to answer questions 29 and 30.

Currently users of a school library can reserve a book by filling a form. The library informs the user by sending a letter when the book is available. Sometimes, the library informs the wrong users by mistake. The librarian is planning to introduce a new information system to replace the current manual system. With the new system a user can reserve a book online. The system sends an email to the user when the book reserved is available to borrow. The librarian suggested that both manual system and the new system to operate till they make sure that the new system works without any problem.

- 29. Consider the following statements related to the librarian's proposal:
 - A The new system will improve efficiency of the reservation process
 - B The new system will improve accuracy of the reservation process
 - C The new system will have a negative impact on users who cannot get access to the Internet Which of the above statements are valid?
 - (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) All A, B and C
- 30. Which of the following is the proposed deployment approach for the above Information System?
 - (1) Parallel
- (2) Phased
- (3) Direct
- (4) Both parallel and direct
- 31. Consider the URL "http://www.doenets.lk/exam/". The "doenets.lk" is called,
 - (1) Domain Name.

- (2) Hypertext Transfer Protocol.
- (3) Path where the resource is located.
- (4) Resource.
- 32. Which of the following can be used to find a piece of information on a website when the relevant URL is not known?
 - (1) Search engine

(2) File Transfer Protocol (FTP)

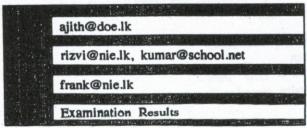
(3) Email server

(4) Domain Name Server





33. Consider the following segment of an email sent to Ajith and three others:



If you send the email to ajith@doe.lk as given above, who are the recipients that Ajith will see as having received this email?

- (1) only ajith@doe.lk
- (2) only ajith@doe.lk, rizvi@nie.lk and kumar@school.net
- (3) ajith@doe.lk, rizvi@nie.lk, kumar@school.net and frank@nie.lk
- (4) only ajith@doe.lk and frank@nie.lk
- 34. Which of the following in HTML, can be used to provide substitude information for an image if a user cannot view the image due to slow internet connection?
 - (1) src
- (2) href
- (4) img
- 35. What is the correct HTML code segment for creating the hyperlink, 'Ministry of Education' for http://www. moe.gov.lk?
 - (1) <a>http:// www.moe.gov.lk
 - (2) Ministry of Education
 - (3) Ministry of Education
 - (4) Ministry of Education
- 36. Which of the following HTML tags can be used to make a numbered list in HTML?
 - (1)
- (2) <dl>
- (3)
- (4) < list>

- 37. Consider the following scenarios:
 - A Obtaining a copy of an original birth certificate online
 - B Paying water bills online using the website of the National Water Supply and Drainage Board
 - C Obtaining the revenue license for a vehicle online

Which of the above are e-government related services?

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

- 38. Consider the following statements:
 - A Uninterrupted power supply (UPS)
 - B Software firewall
 - C Use of user name and password to log into a computer

Which of the above are examples for logical security?

- (1) A and B only (2) A and C only
- (3) B and C only
- (4) All A, B and C
- 39. Which of the following is/are (an) example/s of safe use of Internet?
 - A Hiding personal information such as telephone numbers and addresses on social media
 - B Clicking on links in emails that come from unknown persons
 - C Communication with strangers on social media
 - (1) A only
- (2) B only
- (3) C only
- (4) A and C only

- 40. Consider the following statements:
 - A Careless disposal of electronic waste into the environment.
 - B Handing over unusable Compact Fluorescent Light (CFL) bulbs and other electronic devices to
 - C Sell or donate working electronic devices to others without discarding them Which of the above are examples for safe e-waste disposal?
 - (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) All A, B and C





තියලු ම හිමිකම් ඇව්රිමේ / ලාලාට පුනිට්පුලිකාගපුකෙදාපනු / All Rights Reserved]

නව නිර්දේශය/புதிய பாடத்திட்டம்/New Syllabus

NEW நிரை முற்ற நிருந்தில் முற்ற நிருந்தில் நிருநில் நிரு

අධායන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2017 දෙසැම්බර් கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2017 டிசெம்பர் General Certificate of Education (Ord. Level) Examination, December 2017

තොරතුරු හා සන්නිවේදන තාක්ෂණය தகவல் தொடர்பாடல் தொழினுட்பவியல்

Information & Communication Technology I, II

Information & Communication Technology II

Note:

- * Answer five (05) questions only, including the first question and four others.
- * First question carries 20 marks and each of the other questions carries 10 marks.

I, II

- 1. (i) (a) Convert the binary number 110111001100, to Octal. Show steps in your calculation.
 - (b) Convert hexadecimal number 752, to binary. Show steps in your calculation.
 - (ii) A flashlight with motion and light sensors is located outside a front door of a building. The light turns 'on' automatically when it is dark and when someone approaches the door from outside (when both conditions are satisfied). The motion sensor turns from OFF (0) to ON (1) when someone comes near the door. The light sensor is ON (1) when there is light and OFF (0) when it is dark. The block diagram of the circuit Figure 1 relating to this scenario is shown below.

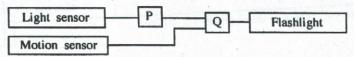


Figure 1 - Logic Circuit

(a) What are the suitable logic gates for P and Q in the above circuit?

The above circuit is modified by adding an OR gate and a switch |ON (1), OFF (0)| as shown below in Figure 2

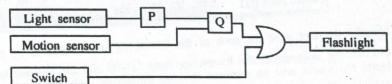


Figure 2 - Modified Logic Circuit

- (b) Identify which of the two in the following statements are correct regarding the modified circuit given in Figure 2. Write down the relevant statement numbers.
 - 1 When switch is ON (1) the flashlight will always be on.
 - 2 When switch is OFF (0) this circuit behaves as the circuit in Figure 1.
 - 3 The behaviour of two circuits are identical.
- (iii) Assume that 4 bits per pixel are used to represent a colour in a colour representation system. How many colours different from each other can be represented in this system?
- (iv) Sama goes to a bookshop to buy 3 exercise books and 2 pens. After finding the items, she takes them to the counter where the sales assistant scans the bar code stickers attached to each item into the information system in the shop. Quantities of each item are also entered into the system. The system calculates the cost for each item and the total cost of all the items. Then the system prints the bil for the transaction.

Write down one example each for input, process and output of the information system.

[see page eigh





(v) The following ports labelled @-B are found in a computer.



Write down the relevant label of the port related to the following questions:

- (a) Which port can be used to access Internet using a network (UTP) cable?
- (b) What port can be used to connect a digital camera to copy photos into the computer?
- (vi) The document given below was created using a Word Processing software and it was formatted as indicated by labels 10 to 4. Assume that the font size of the document has not been changed,

Before formatting

After formatting Covalent Bonds

1) and (2)

(3)

Covalent Bonds

Electron sharing between atoms is another method of forming bonds among them. By sharing of electrons like this, the atoms acquire the noble gas configuration. Joining of atoms by sharing electrons between a pair of atoms is referred to as a covalent bond.

Sharing of electrons between atoms of the same kind gives rise to homoatomic molecules.

e.g. hydrogen (H2), fluorine (F2), oxygen (O2), nitrogen (N2)

Electron sharing between atoms is another method of forming bonds among them. By sharing of electrons like this, the atoms acquire the noble gas configuration. Joining of atoms by sharing electrons between a pair of atoms is referred to as a covalent bond.

Sharing of electrons between atoms of the same kind gives rise to homoatomic molecules.

e.g. hydrogen (H2), fluorine (F2), oxygen (O3), nitrogen (N₂)4

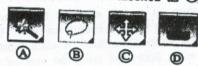
(Source: Science text book-grade 10, p174)

Some formatting tools available in Word processing software are shown below with labels @ - 10.



Identify the tool used for each of the formatting tasks indicated by the labels ① to ④. Write down the number assigned to the formatting tasks 1 - 4 and the relevant label of the tool. Note: No marks will be awarded if more formatting tools than necessary are given in your answer.

- (vii) Determine whether the following statements are True or False. Write down the statement number and whether the statement is True or False.
 - ① Internet Protocol (IP) address is used to uniquely identify a computer on the Internet.
 - 2 File Transfer Protocol (FTP) is used to transfer files between remote computers.
 - 3 Hypertext Transfer Protocol (HTTP) is used to exchange html documents.
 - 4 Files and folders in a cloud computing environment can be accessed without an Internet connection.
- (viii) Some icons used in graphic design software are labelled as A-D.



Identify the correct name for each tool from the list given below. Write down the tool name against

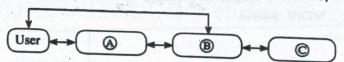
List: {crop tool, lasso tool, hand tool, brush tool, clone stamp tool, magic wand tool, move tool}





(ix) The following diagram shows the interaction between a user and a computer system. Identify matching terms for labels (A), (B) and (C) in the diagram from the following list. Write down the label and

List: |Hardware, Application software, Operating system software, Liveware|



(x) Assume that a dice was thrown 10 times and the 10 values obtained are stored in an array named A. The following algorithm with missing terms P, Q and R is used to calculate how many times number 5 was obtained.

count = 0 i = 0while $i < \mathbb{P}$ if $A[\mathbb{Q}] = 5$ then $\mathbb{R} = count + 1$ end if i = i + 1end while display count

Index of array 0 1 2 3 4 5 6 7 8 9
A 1 3 5 3 2 1 5 4 6 1

Write the correct terms for labels P, O and R in the above algorithm,

- 2. (i) Consider following statements ①-④ regarding ICT related security issues.
 - A malware program that replicates itself to spread to other computers.
 - 2 Unsolicited (unwanted) email received into the inbox of an email software.
 - 3 Pretending to be a trustworthy communication, attempting to obtain someone's username and password of a bank account.
 - 4 Display unwanted promotional material in the form of pop-ups in a webpage.

Identify the matching terms from the list given below for each of the statements ①-④. Write down the statement number and the relevant term from the list.

List: | Adware, Spam, Phishing, Bots, Computer worm, Firewall |

(ii) The diagram shows how a person works on his computer.
Write two health related issues that he may face due to the posture.



- (iii) Consider the following scenarios labelled ① ③.
 - ① A person copying licensed software downloaded from Internet and selling to others.
 - 2 A person logging into a social media account using a stolen user name and a password.
 - 3 A farmer in one country uses agricultural information on web, while a farmer in another country is unable to use such information as he does not know how to use computers and does not have access to Internet.

Identify the suitable terms from the list given below for each of the above scenarios and write down the relevant term against the labels ①-③.

List: | Piracy, Cyber crime, Digital divide, Privacy, Electronic business |

[see page ten





3. (i) Consider the following figure which shows HTML source file with missing tags and parameters labelled 1-8 on the left and its output on the right.

HTML source

Output

<!DOCTYPE html>

<html>

<body>

<h2><1> Milk Rice </1>

src="milkrice.jpg" alt="Milk Rice">

 "<0>Kiribath</0> is a traditional dish which is fit for any auspicious moment. Kiribath also known as milk rice is normally served with "lunu miris", a mixture of red onions and spices as well as with bananas, jaggery & curries. It's a must have for New Year celebrations & a popular breakfast dish too."

Cups of Long grain rice (short grain or white rice)

Cups of Coconut milk (thick)

<0>3</0>/<0>4</0> Teaspoons of Salt </0>

</body>

</html>



"Kiribath is a traditional dish which is fit for any auspicious moment. Kiribath also known as milk rice is normally served with "lunu miris", a mixture of red onions and spices as well as with bananas, jaggery & curries. It's a must have New Year celebrations & a popular breakfast dish too."

- 3 Cups of Long grain rice (short grain or white rice)
- 3 Cups of Coconut milk (thick)
- 4 ½ Cups of Water
- ¾ Teaspoons of Salt

Select the correct tag or parameter from the following list for labels numbered 1-6 in the HTML source code above and write them down against each number.

List: [center, b, br, em, img, justify, i, ol, s, sup, sub, p, tr, td, marquee, u, ul]

- (ii) Determine whether the following statements are TRUE or FALSE.
 - ① Number of pixels can be reduced by removing unnecessary sections in edge of images using Crop/Trim tool in graphics software.
 - Size of video files can be reduced by making the frame size smaller and reducing the resolution of image in a frame.
 - 3 The size of audio files can be compressed by decreasing the sampling rate.

Write down statement labels 1-3 and write whether the above statements are TRUE or FALSE.

4. The following spreadsheet segment shows CO₂ emission (kt) of some Asian countries in the years 1972 and

	A	_ B	C	D	
1	CO ₂ Em	ission (kt) of	some Ade		
3	Country Name	1972	2014	Difference	Percentage
4	Bangladesh	3509.319	73189.653	i de la constantina	
5	Bhutan	3.667	1001.091		
	China	931575.681	10291926.9		
	India		2238377.14		
	Japan		1214048.36		
	Sri Lanka	3542.322	18393.672	and the same of	
	Maldives	3.667	1334.788		
11	Total CO, Emission (kt)				

(source: World Development Indicators)

- (i) Write down the formula that should be written in cell D4 to find the difference of CO₂ emission
 - | Difference = Value of year 2014 Value of year 1972 |
- (ii) Write down the formula that should be written in cell E4 to calculate the percentage increase of CO2
 - Percentage Increase = (Difference/Value of year 1972) × 100 |

[see page eleven





- (iii) Assume that the two formulae entered to cells D4 and E4 are copied to the cell range D5:E10.

 Write down respectively the two formulae displayed in cell D9 and E9 that are related to Sri Lanka.
- (iv) A formula in the form of =function1(cell1:cell2) is written in cell B11 to calculate the total CO₂ emission in all countries in 1972. Write down the relevant terms for function1, cell1 and cell2.
- (v) Name the most suitable chart type in spreadsheet software to show the CO₂ emission of given countries in 1972 and 2014.
- Assume that the following database tables are used to calculate the electricity bills. The same rate is used to complete the bill of a given customer.

Customer_	Data Tabl	e
Name	Acc_No	Туре
A.B. Silva	1001	R
V. Balasingham	1002	С
S.S. Gamage	1003	R
R.T. Alles	1004	С

Rate Table				
Туре	Rate			
R	10.50			
C	18.50			

Usage Table		
Month	Acc_No	Units
January	1001	185
February	1001	280
January	1002	165
May	1003	270

- (i) Write two primary keys and their corresponding tables.
- (ii) Write two foreign keys and their corresponding tables.
- (iii) What would be the most suitable table in the database to add the field customer_address?
- (iv) What tables should be updated if a new customer called A.B.C Navaz of type R has used 120 units for the month of April?
- (v) Write down the updated rows and their respective table names for the updates given (iv) above. (Assume that Acc_No is 1005.)
- (vi) What tables should be joined to run a query to find out the total bill for A.B. Silva for January?
- 6. (i) Consider the following scenario related to the development of a library information system.

The librarian proposed to introduce a new computerized information system to manage its operations. Anwar identified the requirements of the proposed system. Then he designed a system that satisfies the requirements. Based on the design made by Anwar, Malani developed the software. Krishna tested the software. Saman installed the system in the library. A few months later, Malani fixed problems in the new system and modified the software to print two additional reports.

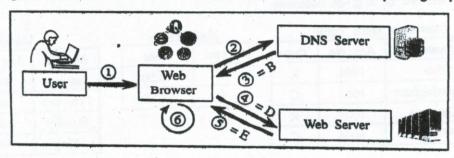
- (a) Who is involved in the coding (implementation) phase of systems development life cycle?
- (b) Which phase of the systems development life cycle was carried out by Saman?
- (c) Which phase of the systems development life cycle was carried out by Krishna?
- (d) Write two different methods that Anwar can use to understand the requirements of the proposed system.
- (e) Anwar assessed whether the new system is able to run with the available computers in the library. What feasibility was assessed in this scenario?
- (ii) The following steps A-F show the process of visiting the 'http://www.nic.lk' web page by a user.
 - A Request to translate www.nie.lk domain name to the IP address is sent to the DNS (Domain Name Server)
 - B DNS returns the IP address 222.165.180.150
 - C Web browser renders the HTML web page
 - D Web browser sends a 'http Get' request to the webserver with the IP address 222.165.180.150
 - E Webserver with IP address 222.165.180.150 returns the html data stream
 - F User opens the web browser and enters 'http://www.nie.lk'

[see page twelve

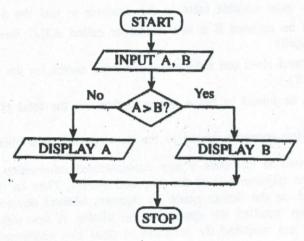




The following diagram shows the process related to the above list of steps. The labels 3, 4 and 5 are matched with steps B, D and E respectively. Match the remaining steps with the labels 1, 2 and 6 in the diagram in the correct order. Write down the label and the corresponding step.



7. (i) The following flowchart shows an algorithm that reads two numbers and display the smaller number.



Write the pseudocode for the algorithm in the flowchart given above.

