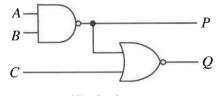
OI	_/2023(2024)/80/E-I, II			24733
<i>Ba</i>	ීලු ම හිමිකම් ඇව්රිණි / ඥාඥා් යුණු	ப்புரிமையுடையது /All Rights .	Reserved]	
	_ී ංකා විභාග දෙපාර්තමේන්තුව ශී ලංකා දි ාස්කෙස uft' කෑණු තිකෙක්සතොර இහස්ස aartment of Examinations, Sri Lanka D ලංකා විභාග දෙපාර්තමේන්තුව ශී ලංකා දි ාස්කය uft'ානෑණු නිකාශේසයහාර இහස්ස	கே பிழுது பதியிக்கையுக்க விழுத்தி இரு பிழுது பதியிக்க இரு இரு விழுது இரு விழுத்தியிக்க இரு இரு விழுத்தியிக்க விழுத்தியிக்க இரு இரு விழுத்தியிக்க இரு இருத்தியிக்க இரு இரு விழுத்தியிக்க இரு இரு விழுத்தியிக்க இரு இரு விழுத்தியிக்க இரு இரு விழு		
	ම නිසින් අවසයි. (අලුලට පැතිසේ නිසා අයාග පත්ත ලේකා විභාග අවසයි. මේකා විභාග අවසයි. අව			
5	தகவல், தொடர்பாடல் தெ	நாழில்நுட்பவியல் ${f I},$	II	மூன்று மணித்தியாலம்
GL	லதிக வாசிப்பு நேரம் -	10 நிமிடங்கள் select	the questions and decide	go through the question paper, on the questions that you give
	Ir	nformation & Comm	nunication Technology	I
Ir	structions:			
	_			
	* In each of the que correct or most ap	estions 1 to 40 , pick of propriate .	one of the alternatives	(1), (2), (3), (4) which is
	* Further instructions	are given on the back	k of the answer sheet. I	Follow them carefully.
	electricity. Which one is (1) Processor: 2.9 GHz (2) Processor: 3.1 GHz (3) Processor: 3.6 GHz	nas a 1 TB hard disk, is most suitable to buy z, Cache: 6MB, RAM: z, Cache: 6MB, RAM: z, Cache: 12MB, RAM	1 VGA port and cons 27. 4GB, 4 USB ports 4GB, 4 USB ports E: 8GB, 8 USB ports	sumes the same amount of
2.	(1) Bar Code Reader		(2) Magnetic Ink Char	racter Reader (MICR)
3.	Which of the following (1) Compact Disk			e (4) USB Flash Drive
4.	Which of the following (1) Cache (3) Hard Disk	executes the instruction	(2) Central Processing	Unit (CPU)
5.	Which of the following (1) a firewall			
6.	Which of the following (1) 40_8		20	(4) 330 ₈
7.	Which of the following (1) 24 ₁₀			2
8.	Which of the following (1) DE8 ₁₆	is the hexadecimal ed (2) 37A ₁₆		
9.	One Terabyte (1 TB) is (1) 1024 KB. (3) 1024 × 1024 × 1024		(2) 1024 × 1024 KB.	

- 10. Which of the following statements are true regarding the ASCII coding system?
 - A Characters E and e are represented using the same code.
 - B # and \$ symbols have different codes.
 - C Sinhala characters do not have ASCII codes.
 - (1) B only
- (2) A and C only
- (3) B and C only
- (4) All A, B and C
- 11. According to the adjacent logic circuit, what will be the respective outputs at P and Q when A, B and C inputs are respectively 1, 1 and 0?



- (1) 0, 0
- (2) 0, 1
- (3) 1, 0
- (4) 1, 1
- 12. What is the shortcut key combination in a word processing software to select the entire document?
 - (1) Ctrl + A
- (2) Ctrl + B
- (3) Ctrl + C
- (4) Ctrl + V
- 13. Which of the following icons in a word processing software can be used to align the left and right sides of a text parallel to each other?
 - (1)
- $(2) \equiv$
- (3) =
- (4)
- 14. Which of the following statements are correct regarding a word processing software?
 - A It lets the user to add tables and images to a document.
 - B Format Painter tool () lets a user to copy formatting like *font style* and apply it to other pieces of text.
 - C Landscape and Portrait are the two page orientations available.
 - (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) All A, B and C
- **15.** Which of the following icons could be used to format a character as a subscript in a Word Processing Software?
 - (1) **A**
- (2) **A**
- (3) A
- (4) U
- To answer questions 16 and 17, consider the following spreadsheet segment which contains the ICT marks obtained by students for three term tests.
- **16.** What is the formula to be entered into cell D9, to find the number of students who appeared for the 3rd term test?
 - (1) = COUNT(B2:D8)
 - (2) = COUNT(D2:D8)
 - (3) = SUM(B2:D8)
 - (4) = SUM(D2:D8)
- 17. What is the correct formula to be entered into cell E2 to calculate the average mark of Shanaya for the three term tests?
 - (1) = (57+70+absent)/3
 - (2) = (B2+C2+D2)/3
 - (3) = AVERAGE(B2:D2)
 - (4) = SUM(B2:D2)/3

- E A B 1st Term 2nd term 3rd Term Name 2 Shanaya 57 70 absent Nethmi 45 55 66 4 Asjath 75 68 absent Bimsara 45 57 5 78 Vasuki 56 67 45 35 55 7 MalRaj 75 Vasanthar 40 60 8 9 10
- 18. Which of the following formulas (I, II, III) contain valid cell addresses?
 - I: X\$1\$+Y\$1
- II: P\$1+\$Q\$2
- III: M2*N\$2
- (4) All I, II and III

- (1) I and II only
- (2) I and III only
- (3) II and III only

• Questions 19 to 22 are based on the following four partially shown database tables that are designed for a bus seat reservation system.

BUS_STATION

Bus_station_code	Name
W1	Colombo
S 1	Galle
N1	Jaffna

ROUTE

Note: Routes are identified by the Route_code. Many routes can start from the same bus station and many routes can end at the same bus station.

Route_code	From_bus_station_code	To_bus_station_code
1_1	W1	N1
2_1	W1	S1

ROUTE INSTANCE

Note: Assume there is only one trip per route per day.

		1 7
Route_code	Date	Available_seats
1_1	01-07-2024	23
1_1	02-07-2024	35
2_1	01-07-2024	34
2 1	02-07-2024	35

SEAT_RESERVATION

Note: Seat_number uniquely identifies a seat.

Route_code	Date	Seat_number	Passenger_name	Passenger_phone
1_1	01-07-2024	1	ABC Fernando	0111111111
1_1	01-07-2024	2	DEF Sivarajah	0333333333
2_1	01-07-2024	1	IJK Meerasahib	022222222

- 19. What is most suitable to be the primary key of the ROUTE table?
 - (1) From_bus_station code

(2) Route_code

(3) To_bus_station_code

- (4) Route_code + From_bus_station_code
- 20. What is most suitable to be the primary key of the SEAT_RESERVATION table?
 - (1) Route_code

- (2) Route code + Date
- (3) Route_code + Seat_number
- (4) Route_code + Date + Seat number
- 21. What is a foreign key in this database?
 - (1) Bus_station_code in the BUS STATION table
 - (2) Date in the ROUTE_INSTANCE table
 - (3) Seat_number in the SEAT_RESERVATION table
 - (4) To_bus_station_code in the ROUTE table
- 22. If it is decided to add a description to each route (e.g., Kurunegala-Anuradhapura-Vavuniya to Route 1_1), to which table should that field be added?
 - (1) BUS_STATION

(2) ROUTE

(3) ROUTE_INSTANCE

- (4) SEAT_RESERVATION
- 23. The roots of a quadratic equation $ax^2 + bx + c = 0$ are found by the equation $x = \frac{-b \pm \sqrt{b^2 4ac}}{2a}$. If a program is to be written to use this equation to find roots, what would be the inputs to this program?
 - (1) a, b, c
- (2) a, b, b^2, c
- (3) x, a, b, c
- (4) x, a, b, b^2 , c

24.		input an employee's age, check if that employee is it. The age of retirement is 60 years. Which of the appropriate to use in this algorithm? (2) Sequence only (4) Sequence and selection only
25.	the correct outcomes of P, Q and R respec	nd 10 respectively, which of the following represents tively?
	(1) false, false, true (2) false, true, true	e (3) true, true, false (4) true, true, true
26.	Suppose you want to store the full name suitable data type for that variable? (1) Boolean (2) Char	of a person in a variable. What would be the most
		(3) Integer (4) String
27.	When operator precedence in Pascal is con (1) -4 (2) 6	sidered, what will be the result of $4-1*3+5?$ (3) 14 (4) 24
28.	In which of the following instances woul structured programming? (1) to assign a value to the variable age (2) to validate a password entered by a us (3) to calculate the sum of first 100 integ (4) to repeat a task for 15 times	ser
	Questions 29 and 30 are based on the Pas	cal codes shown in figures 1 and 2 respectively.
	<pre>program whileTest; var a, sum: integer; begin sum := 0; a := 1; while a < 5 do begin sum := sum + a; a := a + 1; end; writeln(sum);</pre>	<pre>program looptest; var i,j : integer; begin for i := 1 to 2 do begin for j := 1 to 2 do write(i,j); end; end. Figure 2</pre>
	end.	Tiguite 2
29.	Figure 1 What would be the output if the code sho	wn in Figure 1 is executed?
	(1) 0 (2) 10	(3) 11 (4) 15
30.	Which nested control structure is visible in	the Pascal code of Figure 2?
	(1) iteration (2) iteration inside iteration selection	(3) selection (4) selection inside inside selection
31.		ring programming languages can be executed directly (3) machine language (4) Pascal
22	•	
32.	incremental models. B - It is suitable if 'integration testing C - 'System testing' should be done or	of requirements' correctly in both waterfall and iterative ' is done only when the 'unit tests' are successful. only after 'acceptance testing'.
	(1) A and B only (2) A and C only	(3) B and C only (4) All A, B and C

33.	Which of the following will best help the users of a proposed system to get an idea of its features and how it will appear? (1) Interviews with system developers (2) Questionnaires from system developers (3) Sample reports / files given to system developers (4) The prototypes of the proposed system shown by system developers
34.	Consider the following steps to send an email using a service like Gmail: A - Login to the email account C - Click 'Compose' or 'New' D - Type the subject and the message E - Type the 'To' address Which of the following gives the correct order of the above steps? (1) A -> B -> C -> D -> E (2) A -> C -> E -> D -> B (3) C -> B -> E -> D -> A (4) C -> D -> E -> A -> B
35.	Which of the following are true regarding the use of a particular software through SaaS of cloud computing? A - The client needs an Internet connection to use the software. B - The client needs to design and code the software. C - An agreement with the cloud service provider is required to use the software. (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C
36.	Which of the following is essential to connect a computer to the Internet? (1) a fiber optic connection (2) an uninterruptible power supply (3) a web browser (4) a service from an Internet Service Provider
37.	 Which of the following statements are true regarding raster images? A - If an image uses n bits to keep information about each pixel, then that image is capable of displaying 2ⁿ colours. B - Image resolution refers to the number of pixels that exist within an image. C - A graphic with a large number of bits per pixel and a high resolution has a small file size. (1) A only (2) B only (3) A and B only (4) A and C only
38.	Which of the following statements are true? A - accdb is an example for a video file type. B - MP3 is an example for an audio file type. C - The frames between two key frames in an animation are called tween frames. (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C
	You have been assigned to design a web page to be used by the out-patients to reserve times to meet doctors at a clinic of a government hospital. Which of the following is not essential to be included on that page? (1) A video showing the doctors treating the patients in the clinic (2) Facility to view times available for reservation on a selected date (3) Facility to enter patient's name, NIC number and phone number to complete a reservation (4) Information on dates and times the clinic is open and location of the clinic
	Consider the following statement taken from an HTML file: Which of the following statements are not true with respect to it? (1) The dunhinda.jpg image is displayed if it exists. (2) The Dunhinda text is displayed if dunhinda.jpg image file is not available. (3) Either the dunhinda.jpg image or Dunhinda text will always appear at the right on the web page. (4) The Dunhinda text will always appear on the right of the dunhinda.jpg image.

සියලු ම හිමිකම් ඇව්ඊනි / மුඥුப් பதிப்புநிமையுடையது / $All\ Rights\ Reserved$]

අධායන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2023(2024) සහ්ඛ් பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2023(2024) General Certificate of Education (Ord. Level) Examination, 2023(2024)

> තොරතුරු හා සන්නිවේදන තාක්ෂණය தகவல், தொடர்பாடல் தொழில்நுட்பவியல்

I, II

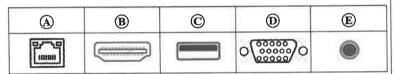
Information & Communication Technology I, II

Information & Communication Technology II

- * 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.
- 1. (i) The song database of a radio station has a unique identifier (Song_id) for each song. In addition, the song title and the details of its copyright owners are also stored. For each instance a song is played, each owner of that song is to be paid Rs. 100. The radio station enters the Song_id of the songs that it plays to the database each day so that the owners of the songs can be duly paid at the end of each month.

Write down two different pieces of information that could be obtained from this system after the necessary data processing.

(ii) Five ports on a computer labelled as **(A)** – **(E)** are shown in the figure.



- (a) Write down the label of the port which can be used to connect a projector with an HDMI cable.
- (b) Write down the label of the port that can be used to connect an RJ45 cable.
- (iii) Convert 85₁₀ to its binary equivalent.
- (iv) Draw the logic circuit relating to the boolean expression $P = \overline{C} + A\overline{B}$ including **AND**, **NOT** and **OR** gates only.
- (v) For each of the blanks labelled A to D of the following paragraph, pick and write down the suitable replacement from the two terms given near it within parentheses.

When the computer is switched on the ...A... (application software, BIOS) runs to check all the hardware and confirm that they are functioning properly. Then the operating system is loaded into the ...B... (hard disk, memory). It sets up the initial environment for running processes on the computer. Then it provides an interface for the user to log in. Once logged in, the user can start many processes. The ...C... (anti-virus software, operating system) runs as and when necessary to fulfil the various requirements of these processes and do other management activities of the ...D... (BIOS, computer).

(vi) Some formatting options available in a word processing software are shown below:

Option	В	I	U	~	1	A	Aa
Label	P	Q	R	S	T	U	V

Write down the labels of the any **two** options that have been used to do the following sentence formatting.

Sentence before formatting: Never stop learning, because life never stops teaching.

Sentence after formatting: <u>NEVER STOP LEARNING, BECAUSE LIFE NEVER STOPS TEACHING.</u>

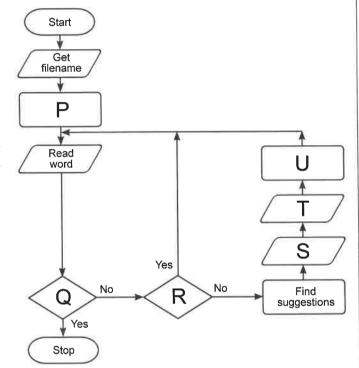
- (vii) Indicate whether the following four statements labelled A to D regarding presentations / presentation software are true or false by drawing ✓ or × symbols respectively against each label.
 - A The slide layout can be used to create a slide with a title, some text bullets and two images.
 - B Video content cannot be added to an electronic presentation.
 - C It is good to add a lot of long sentences to each slide.
 - D Before making the slides, it is suitable to plan the presentation considering its purpose, the time duration and the expected audience.
- (viii) A program is required to check the spellings in a text file named by the user. The program is to offer suggestions for incorrect words and then do what the user wants with respect to them.

A flowchart drawn for the purpose is shown at right.

Write down the labels of the correct replacements for P to U choosing from the given list.

List:

- A Is the word correct?
- \mathbf{B} Do what user wants
- C End-of-file?
- D Get user input
- E Open file
- **F** Print suggestions



- (ix) (a) 'Identification of requirements' is the first step in the System Development Life Cycle (SDLC). List its 2nd, 3rd, 4th and 5th steps in the correct order.
 - (b) In which step of SDLC is the use of prototypes most productive?
- (x) Consider the email header given below.

To: riyas@example.com

Cc: raja@abc.com, saman@example.com

Bcc: sheron@abc.com

Indicate whether the following statements labelled A to D are true or false by drawing \checkmark or \times symbols respectively against each label.

- A riyas is the primary recipient of the email.
- B raja will know that sheron also received the email.
- C rivas can see that the email was also sent to saman.
- D Everyone in the To and Cc fields can see each other's email addresses.

2. The following spreadsheet shows some statistics related to ICT usage of Sri Lanka for the period of 2014 – 2020.

A	A	В	C	D	E	F
1			ICT Adoption of Srile	inka in 2014-2020		
2	Year	Fixed telephone subscriptions	Fixed broadband subscriptions	Mobile cellular subscriptions	Number of Internet users	Difference of Mobile Cellular users and Internet users
3	2014	2,709,848	567.601	22,123,000	2,230,142	19,892,858
4	2015	3,287,676		23,899,642		
5	2016		1	25,797,200		1
6	2017	2,603,178		28,199,084		23,618,132
7	2018			30,282,984	5,610,985	24,671,999
8	2019	2,291,464	1,666,317	28,352,588	6,278,403	22,074,185
9	2020	2,607,868	1,781,530	29,730,464	7,600,277	22,130,187
10	Lowest value	2,291,464				
11	Highest value		1,781,530		1. A. C.	
12		Source: https://ourw	vorldindata.org/			

Source: https://ourworldindata.org

- (i) The column F is used to calculate the difference of mobile cellular subscriptions and the number of Internet users. The value relevant for the year 2014 is calculated by deducting the relevant value in column E from the relevant value in column D. Write down the suitable formula for cell F3 to display the result.
- (ii) Assume the formula written in cell F3 is copied to the cell range F4:F9 to get the differences of mobile cellular subscriptions and the number of Internet users for the period of 2015 to 2020. Write the formula which shows this difference for the year 2019 (cell F8).
- (iii) (a) What is the formula to be written in cell B10 to get the lowest value for fixed telephone subscriptions?
 - (b) What is the formula to be written in cell C11 to get the highest value for fixed broadband subscriptions?
- (iv) Write down the labels of the following steps in proper order to format the numbers in the cell range B3:F11 as comma separated for every 1000.

Label	Description		
A	Select 'Number' tab and select 'Number' under it		
В	Click 'OK' button		
С	Make Decimal places to 0 and click on the checkbox to activate 'Use 1000 separator'		
D	Select the cell range B3:F11		
E	Press right mouse button and select 'Format Cells'		

- (v) From column and pie charts, what is most suitable to compare the values across the four categories (B3:E9) over the period 2014 2020?
- (vi) Assume that on a **different spreadsheet** the cell B4 contains the formula =\$B3+B2. If this formula is copied to cell C5, write down the formula that would appear in cell C5.

3. Following are the partially shown relational database tables that are used to store information about students, courses and course enrolment in a university.

STUDENT

Student_id	First_name	Last_name
S1000	Saman	Perera
S1001	Raj	Selvam
S1002	Shane	Almeida
S1003	Moshin	Ahmed

COURSE

Course_id	Course_name	Credits	Department
C200	Programming	4	Computer Science
C201	Organic Chemistry	3	Chemistry
C202	English Literature	3	English
C203	Molecular Biology	4	Biology
C204	Web Development	3	Computer Science

ENROLMENT

Student_id	Course_id	Enrolment_date
S1001	C200	05-01-2024
S1002	C203	04-01-2024
S1001	C204	05-01-2024
S1003	C202	06-01-2024

- (i) (a) Write down the primary key of ENROLMENT table.
 - (b) Write down the foreign key(s) of ENROLMENT table.
- (ii) Which tables need to be updated to accommodate the following?
 - (a) the Computer Science Department introducing a new course named Cyber Security
 - (b) a new student joining the University and enrolling in the Organic Chemistry course
- (iii) The *Chemistry Department* introduces a new course named *Inorganic Chemistry* (CourseID: C228) having 3 credits. *Saman Perera* enrolls in that course on 08-01-2024 and *Moshin Ahmed* enrolls in it on 09-01-2024. Write down the new records to be added to the relevant tables for the above change.

Note: Use **only** the *table name* → (*field1 content*, *field2 content*, ...) format for each new record.

E.g., STUDENT → (S1000, Saman, Perera)

- (iv) It is required to show the Course_ids of all courses enrolled by the student S1001. The course name also needs to be shown. Which tables need to be joined for this purpose?
- (v) It is decided to add the name and the phone number of the teacher teaching each course to the new fields **Teacher_name** and **Teacher_phone** respectively. If a teacher could be assigned to teach several courses, recommend the most suitable table addition/change for this purpose.

4. The administration of a school decides to calculate the body mass index (BMI) of each student to find the 'underweight', 'normal', 'overweight' and 'obese' students.

The BMI of a person weighing w kilograms and having a height of h metres is calculated using the following formula:

$$BMI = w / h^2$$

E.g., The BMI of a person weighing 90 kg and 2 m tall = $90/2^2 = 90/4 = 22.5$ Then the person's weight status is found according to the following table:

BMI	Weight status	
BMI < 18.5	Underweight	
18.5 <= BMI < 25.0	Normal	
25.0 <= BMI <= 29.9	Overweight	
BMI > 29.9	Obese	

The school administration wants a program to find the weight status of all the 400 students in the school. In this program, for each student, the name, grade, weight in kilograms and height in metres should be taken as inputs. Then the student's BMI should be computed. Finally, the name, grade, the BMI and weight status (underweight, normal, overweight or obese) of the student should be printed.

A pseudocode skeleton that aids in writing this program is given below. Write down the suitable replacements for the blanks in it labelled from A to G.

Note: The replacement to one of the blanks requires multiple lines.

5. (i) Match the descriptions labelled P to S with the correct terms from the list given and write the relevant term against each label using the label → term format.

Label	Description			
P A protocol for electronic mail transmission				
Q	A protocol used for transmitting web pages over the Internet			
R	A unique identifier for a device on the Internet			
S	The address of a specific web page			

List: {DNS, email address, HTTP, IP address, SMTP, URL}

(ii) Choosing from the examples given in the list, write down the **label** of the suitable example for each of the items numbered from 1 to 6 using the **number** → **label** format.

1 – protocol 2 – IP Address 3 – Email Address 4 – Domain Name 5 – URL 6 – An operating system

List: {A - 192.168.1.1, B - https://www.example.com, C - Java, D - john.doe@example.com, E - SaaS, F - TCP/IP, G - xyz.example.com, H - Ubuntu}

(iii) The HTML source of the web page shown in Figure 1 is given in Figure 2 with certain missing tags labelled 1 to 1.

Renewable Energy for Sri Lanka

Renewable energy sources are essential for sustainable development. Sri Lanka will benefit immensely by investing in it.

Types of Renewable Energy

- · Solar energy
- · Wind energy
- Hydroelectric power
- · Biomass energy

Some challenges and solutions for renewable energy adoption:

Challenge	Solution	
High initial costs	Subsidies and providing incentives	
Variable energy production	Providing energy storage solutions	
Infrastructure needs	Investment in national grid upgrades	
Environmental impacts	Sustainable site selection	

For more details: National Green Energy

Figure 1: Web page

```
<html>
<head> <10>Renewable energy </10> </head>
<3><h1>Renewable Energy for Sri Lanka</h1></3>
Renewable energy sources are essential for sustainable development. Sri Lanka will benefit
           immensely by investing in it. 
<4>Types of Renewable Energy</4>
<6>
             <6>Solar energy</6>
             6>Wind energy<6>
             <6>Hydroelectric power</6>
             <6>Biomass energy</6>
</6>
Some challenges and solutions for renewable energy adoption:
<  border="4" align="center">
<8>Challenge</8><8>Solution</8>
<9>High initial costs</9><9>Subsidies and providing incentives</9>
<9>Variable energy production</9><9>Providing energy storage solutions</9>
<9>Infrastructure needs</9><9>Investment in national grid upgrades</9>
<9>Environmental impacts</9><9>Sustainable site selection</9>
</0>
>
For more details: < href="http://greenenergy.gov.lk" > National Green Energy </ href="http://greenenenergy.gov.lk" > National Green Energy </ href="http://greenenengy.gov.lk" > National Green Energy </ href="http://greenengy.gov.lk" > National Greenengy.gov.lk" > National Greenengy.gov.lk" > National Greenengy.gov.lk
</2>
 </html>
```

Figure 2: HTML Source

Select the correct tags for the labels **1** to **0** of **Figure 2** from the list given below. Write down each label number and the corresponding HTML tag.

List: {a, body, center, dl, h1, h2, head, li, link, ol, p, table, td, th, title, tr, ul}

[see page twelve

- 6. (i) A person is trying to decide whether to use the BMP format or the JPG format to save an image.
 - (a) Which format will take lesser storage space? Why?
 - (b) Which format will have better image quality?
 - (ii) Write down the main difference between raster and vector image files.
 - (iii) (a) Some icons of GIMP software are given below. Write down what each could be used for.

Label	A B		C	D	
Icon		P	A		

- (b) For what purpose can the Clone tool in GIMP be used?
- (iv) What are meant by 'key frames' in an animation?
- (v) For what purpose do you use the following icons of Audacity software?

Label	P	Q	R
Icon	I	-1001-	nol-lou

- (vi) Consider the following A and B parts of the Windows Movie Maker interface:
 - A Preview/player pane
 - B Timeline stage

Assume that the above software is started and all the components (e.g., images, audios etc.) that the video must consist of are selected. From A and B, which will show the arrangement of these components?

- 7. (i) Write down three character types that a strong password should consist of. Give another characteristic that will make a password strong.
 - (ii) What is 'plagiarism'?
 - (iii) Protecting the electronic items that we already have is one way of stopping them being added to e-waste. Write down **two** steps that you could take to ensure that the hardware of the desktop computer that you use will serve you without problems for a long time.
 - (iv) Write down one thing that you could do to protect the software on your computer.
 - (v) Give one good habit that a person could follow with respect to each of the following:
 - (a) To make it easier to find the files that he/she has stored on his/her computer
 - (b) To prevent the hard disk becoming full
 - (vi) A good posture is important when using a computer. Write down one guideline that one could follow with respect to the computer screen placement and one's eye level.
 - (vii) It is suggested to create a citizen database containing the details of all citizens living in a district. The details to be entered for a citizen include his/her name, address, birth date, gender, NIC number and the NIC numbers of his/her parents. The database is to be updated based on births, deaths and citizen migrations.

Write down one benefit of this proposed system.

WWW.PastPapers.WiKi



කෙට් සටහන්|පසුගිය පුශ්න පතු|වැඩ පොත් සඟරා $|{
m O/L}$ පුශ්න පතු|A/L පුශ්න පතු අනුමාන පුශ්න පතු අතිරේක කියවීම් පොත් | School Book ගුරු අතපොත්

















පෙර පාසලේ සිට උසස් පෙළ දක්වා සියළුම පුශ්න පතු, කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා

පිංහල සහ ඉංගීසි මාධායයන් ගෙදරටම ගෙන්වා ගැනීමට

www.LOL.lk වෙබ් අඩවිය වෙත යන්න