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- (iii) (a) What is the main difference between waterfall life cycle model and iterative incremental life cycle model?
 - (b) List one advantage of iterative incremental life cycle model.
- (iv) Assume that a desktop computer was purchased and you are asked to connect different peripheral devices to it. **Tasks** column shown below lists the tasks to be carried out for this purpose and the **Port** column shows ports or connectors to be used. Match each task to the relevant port and write down the task number and the matching port label.

Task		Port	
Task 1 – Connect the LED display to the system unit		A -	63
Task 2 – Connect keyboard and the mouse		B -	
Task 3 – Connect network cable		© -	
Task 4 – Connect the power cable		D -	

(v) Consider the following phrase before and after formatting using word processing software: (Assume that the font size of the phrase has not been changed.)

Before formatting :Essential 21st Century Skills for Today's StudentsAfter formatting :Essential 21st Century Skills for Today's Students

Write down the word processing software tools required for the above formatting.

(vi) The column on the left lists three types of cloud computing services (labeled A_C) and the column on the right describes some of the services provided by each (labeled X_Z). Match items in the two columns and write down the corresponding pairs using their labels.

(A) – Infrastructure as a service (IaaS)	(X) – Provides software installed in the cloud [Example: Google Docs]		
B – Software as a Service (SaaS)	 Provides necessary server environment for software development [Example: Google App Engine] 		
© – Platform as a Service (PaaS)	 Provides facilities such as servers, network, storage, etc. [Example: Amazon Web Services (AWS)] 		

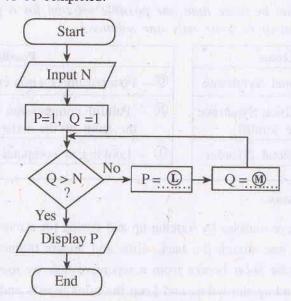
- (vii) Following gives four different scenarios labelled (S1) (S4) that require different communication methods:
 - (SI) A manager of a bank, while in Sri Lanka, joining a meeting held in their Head Office in India
 - (S2) A secretary sending a softcopy of a report from her manager to all employees working in a different city
 - (5) A technical officer sending a message to his manager informing that the machine has been repaired
 - (S4) A marketing manager sharing photos of a community service project and obtaining feedback from customers as comments

Identify the most suitable communication method for each of the above scenarios from the list given below and write down label number and communication method.

List : {blog, email, instant messaging, social network, video conferencing}

- (viii) How many different colours can be represented if 10 bits per pixel (bpp) is used as *colour depth* in an image?
- (ix) Consider the given flowchart that finds the product of an integer with all the integers below it.

(E.g.: If N is the given integer then the product = $1 \times 2 \times 3 \dots \times N$) (D) and (D) are expressions to be completed.



(a) Write the correct expressions for \bigcirc and \oslash , respectively.

(x) Consider the Employee and Division tables given below:

(b) If N = 4, write down the final values of P and Q when the algorithm reaches the end.

Emp_Name	Emp_ID	Designation	Div_ID
Saman Perera	E1	Manager	P
Raj Selvam	E2	Engineer	0
John ,Allison	E3	ICT Officer	R
Fazal Khan	E4	Accountant	S

Division _Name	Division _Number	Division _Location
Finance		Colombo 1
Stores	2	Colombo 2
Sales	3	Colombo 3

Division table

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Employee table

- (a) Assume that a new division named *IT* located in *Colombo 3* is to be added. Write down the new record that has to be added and the corresponding table name.
- (b) Saman and John work at Stores. Fazal works at Finance Division. Raj recently joined the IT Division. Write down the correct values for labels ℗-⑤ in Employee table to represent this information.

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2. (i) People who work with computers for long periods sometimes complain of certain health issues. The following shows the Health Issues (labeled (A - C)), Possible Reasons (labeled (G - (I)) and Possible Solutions (labeled (P - W)).

Match each health issue (A - C), with a possible reason (B - I) and a possible solution (P - W) and write down using their labels.

(Note: There can be more than one possible solution for a given health issue. However, you are required to write only one solution.)

Health Issue	Possible Reason
A - Carpel Tunnel Syndrome	G – Poor posture or a non-ergonomically designed work space
B – Computer Vision Syndrome (Digital Eye Strain)	(H) – Painful compression of a nerve as it passes across the front of the wrist
© – Musculoskeletal disorder	① - Looking at computer screen for prolonged periods

Possible Solutions

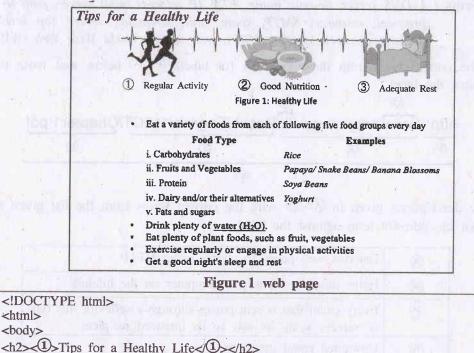
- (P) Rest the eye muscles by looking up and staring for a moment at objects in the distance
- Q Stand up and stretch the back, arms and fingers frequently
- ${f \mathbb{R}}$ Take regular short breaks from a repetitive task by using an alarm as a reminder
- (S) Avoid bending the wrists and keep the arms, wrists and fingers aligned when typing
- ① Use keyboard shortcuts to reduce typing and mouse movements
- 1 Avoid hitting the keys too hard while typing / use touch typing
- ${oxed{ { { } { } { } { } { } { } } } }$ Position the computer screen to avoid glare / use curtains or drapes on windows
- W Keep the computer screen about 15 to 20 degrees below eye level
- (ii) For each of the issues (labelled (a-D) below, identify the relevant term from the list and write down the term against each relevant label.
 - (A) A person receiving an email that appears to have come from a well-known organization and asking for personal information such as the credit card number, the user name and the password of the person's online banking facility
 - B The practice of taking someone else's work and publishing them off as one's own
 - © A person having unauthorized access to a computer network and accessing personal information such as names and addresses of customers
 - D A person selling unauthorized copies of a licensed software at a 5% of the original price

List of terms : {fair use, forgery, hacking, phishing, plagiarism, piracy, spam}

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<html> <body>

3. (i) The HTML source of the web page shown in Figure 1 is given in Figure 2 with certain missing tags and parameters labelled (1) - (8).



<2></2> <2> Figure 1: Healthy Life</2> <5> Eat a variety of foods from each of following five food groups every day <6> Food Type Examples i. Carbohydrates <i>Rice</i> ii. Fruits and Vegetables <i>Papaya/ Snake Beans/ Banana Blossoms</i> iii. Protein <i>Soya Beans</i> > iv. Dairy and/or their alternatives <i>Yoghurt</i> v. Fats and sugars $\langle tr \rangle$ <(6)> Drink plenty of < href="https://www.purewaterfortheworld.org">water (H<8>2</8>0)</7>. Eat plenty of plant foods, such as fruit, vegetables Exercise regularly or engage in physical activities Get a good night's sleep and rest </5> </body> </html> Figure 2 The HTML Source code

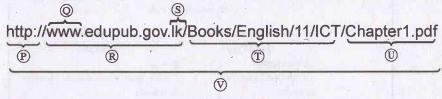
Select the matching correct tag or parameter from the following list for each of the labels 1 - 8 given in Figure 2 and write down against each label number.

List of terms : {a, alt, b, br, center, dl, href, i, img, li, ol, p, src, sub, sup, table, td, th, tr, ul}

(ii) Use the following list of terms in answering questions (a) and (b) below.

List of terms : { DNS server, domain name, FTP, IP address, mail server, path to resource, protocol, resource, SMTP, spam mail, streaming server, top level domain, uniform resource locator (URL), web server, World Wide Web (WWW) }

(a) Identify the correct term from the above list for labels $\bigcirc - \oslash$ below and write the correct terms against the label.



(b) Match the descriptions given in A-D with the correct terms from the list given above and write down the relevant term against the label.

A	Delivers web pages to clients using HTTP
B	Helps uniquely identify a computer on the internet
©	Every email that is sent passes through a series of this type of servers along its way to its intended recipient
D	Unwanted email messages

4. (i) Consider the spreadsheet segment given below containing prices of two models of laptop computers and their accessories.

2	A	B	C	
1	Description	Price (Rs.)		
2	Description	Model A	Model B	
3	Laptop computer	64000	71000	
4	Bag	1500	1750	
5	Mouse device	450	500	
6	Total	65950	10	
7	Total Including delivery Cost	66300	73600	
8				
9		- V RANGE		
10	Delivery Charge (City limits)	350	THE REAL PROPERTY.	
11	be new infeation	Sach Bhile	- Sin Colo	

The delivery cost is Rs. 350 and this cost is shown in cell B10. "Total" and "Total including Delivery Cost" are to be calculated for the two models.

- (a) Write down the formula that should be entered in cell B6 to calculate the 'Total' for Model A in the form of =function(cell1:cell2).
- (b) If this formula is copied to cell C6, what value will be displayed in C6?.
- (c) Write down two formulae that can be written in cell B7 to calculate the "Total including Delivery Cost" using only cell addresses, functions and arithmetic operators.
- (d) If the formula in cell B7 was copied to cell C7, and value shown in C7 was 73600, what formula is in cell C7?

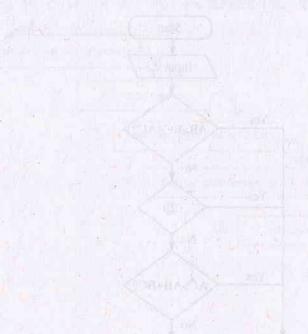
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(ii) (a) Consider the presentation software slide layouts shown as $\triangle - \bigcirc$: 細石 100 (A) (B) 0 (D) Identify the correct name of each layout from the list of names given below and write it down against the layout label. List: {Title slide, Blank slide, Title & content slide, Title only slide, Section header slide, Two *Content slide*} (b) Which of the following views is the most suitable to arrange the positioning of slides? Normal Outline Slide Notes Reading Slide Handout Notes View Sorter View Page Master Master Master 5. Assume that the following is a part of the relational database of a business information system. This business has shops in certain schools in different parts of the country. ShopID Month Sales Category Items January 001 12400 A Ice Cream & Milk March 001 18700 В Milk December 003 15330 C Milk & Stationery February 001 11230 Category Table March 002 16330 Sales Table Name ShopID Category ABC College 001 A PQR Central College 002 B 003 XYZ College С Branch Table (i) Write down two primary keys and their respective table names. (ii) Write down two foreign keys and their respective table names. (iii) What table should be modified to include the telephone number of each shop? (iv) Which tables should be joined to run a query to find out the total sales at ABC College? (v) Assume that a new shop with ShopID 004 selling Milk & Photocopying services is opened at HIJ College. What tables need to be updated to include the given information?

(vi) Write down the newly added records as specified in (v) above along with the respective table names.

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