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6. Which of the followings is not an automatic data collecting method?(1) MICR(2) OMR(3) Sensors(4) Barcode reader	(5) Questionnaires
 7. What is the system in which there are one or more programs loaded ready to execute, only one program gets the CPU for executing its others are awaiting their turn? (1) Multiprogramming (2) Multiprocessing (3) Multithreading (5) Multiuser 	-
 8. Which of the followings is the next stage of the process that is blocker transition diagram? (1) Swapped out and waiting (2) Ready / waiting (3) Running (5) New / created 	
 9. Which of the statements is correct regarding schedulers? Short term scheduler is used to swap the process between memori Long term scheduler sends the selected processes from the readispatch. Short term scheduler is faster than other two schedulers. Long term scheduler speed is seen as the speed between the other Midterm scheduler loads the selected processes to execute into the processes. 	dy state processes through two schedulers.
10. Which of the following hexadecimal numbers is equivalent to decima(1) 144(2) E1(3) 64(4) A0(5) 54	
$11. \ 2C1_{16} + 107_8 = (1) \ 701_{16} \qquad (2) \ 768_{16} \qquad (3) \ 308_{16} \qquad (4) \ 300_{10} \qquad (5) \ 11$	000000102
$12. \ 6_8 * 7_8 = (2) \ 110111_2 \ (3) \ 101010_2 \ (4) \ 110010_2 \ (5) \ 10_2 \$	000112
 13. Which of the followings is the logic gate that denotes the logic circuit (1) AND (2) OR (3) NAND (4) XOR (5) XNOR 	t?
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

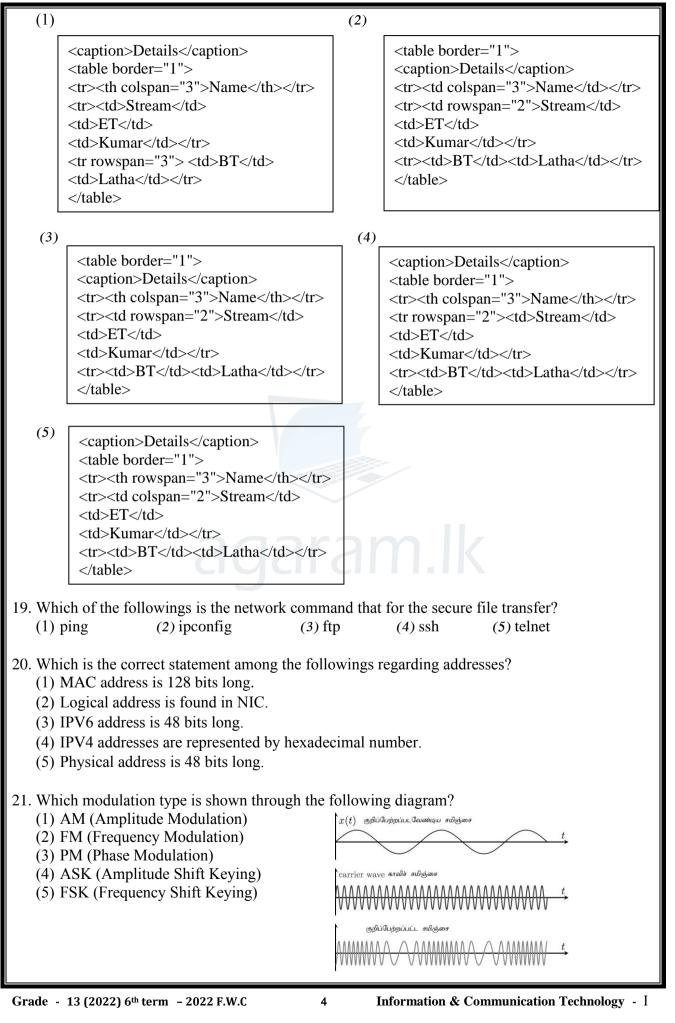
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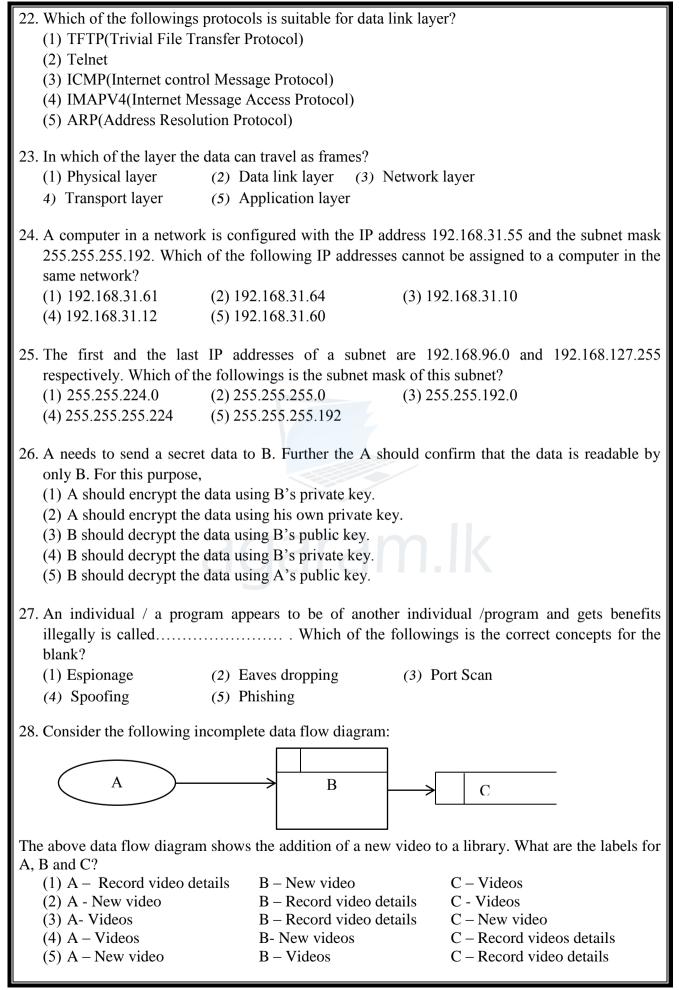
15. Which is the correct syntax used to insert a comment in CSS code? (1) # This is a comment (2) <!-- This is a comment -->(3) // This is a comment (4) / * This is a comment */ (5) #This is a comment # 16. Which of the following PHP code is syntactically correct? 2 1 3 4 5 <?php <php <?php <?php <?php echo "Hello"; echo "Hello"; EcHo "Hello": ECHO "Hello" "echo Hello"; ?> ?> ?> ?> > 17. Consider the following HTML code. <html> <head> k rel="stylesheet" type="text/css" href="mystyle.css"/> <style type="text/css"> p{color:red; text-align:center; font-family:'Courier New';} </style> </head> <body> CSS cascading order </body> </html> mystyle.css file contains the following. p{color:green;text-align:left;font-family:Arial;} Which are the styles from the followings applied to the phrase 'CSS Cascading order' given in the paragraph? (2) Font color (1) Font color - green - red Text alignment- left Text alignment- center Font style Font style - Courier New - Arial (4) Font color (3) Font color - blue - green Text alignment- center Text alignment- center Font style - Courier New Font style - Courier New (5) Font color - blue Text alignment- center Font style - Arial 18. Which of the followings is the correct HTML code to form the following table? Details Name ET Kumar Stream BT Latha 3



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5

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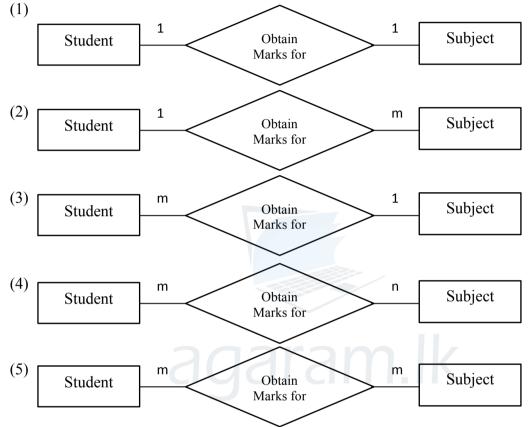
Information & Communication Technology - I

29. Consider the following statements.Statement A: It can be only used for the systement B: It can be only used when there statement C: It can be used only when the tools are used.	e are many system o	designers.
 Which of the followings is the software protection of the given in the statements? (1) Waterfall model (2) Prototype model (3) Spiral model (4) RAD (5) Object oriented model 	ocess model which	has the above characteristics in
20 Which of the followings is the example for	atural anan avatam	2
30. Which of the followings is the example for r(1) Blood circulatory system	(2) Nervous sy	
(1) Blood circulatory system (3) Respiratory system	(4) Computer s	
(5) Bicycle system	(1) computer s	5, 500 m
31. Giving one year warranty to the battery of r	nobile phone is,	
(1) Essential functional requirement.(2) Nice to have functional manifestructure		
(2) Nice to have functional requirement.		
(3) Essential nonfunctional requirement.(4) Nice to have nonfunctional requirement.		
(4) Nice to have nonfunctional requirement.(5) Essential or nice to have functional requirement.	rement	
(3) Essential of filee to have functional requ	irement.	
32. Consider the following trade methods:		
A – Reverse auction		
B – Group purchasing		
C – E-market place		
Among the above trade methods what i	s/are the trade m	ethod/methods found in digital
economy? (1) A only (2) B only (3)	C only	(4) A, C only
(1) A only (2) B only (3) (5) All A, B, C are correct	Comy	(4) A, C only
33. Consider the following benefits received fro		
A: Can popularize their products globally in	fast and efficient w	vay.
B: Remove barriers and no need of a place.	of the many anti-	
C: Can select the best with cheap price amon Among the above benefits which can a trade		5.
-	-	(4) A, C only (5) C only
	, ~, ~	
34. The system that can produce machines wh		in rendering goods and services
according to the likes and dislikes of the cus		
	Kansei.	(3) Agent.
(4) Multi agent system. (5)	Intelligent agent.	
35. Which is not the application of Ubiquitous co	omputing?	
(1) Methods of guiding the disabled.	paring.	
(2) Sharing of resources in cloud computing		
(3) Smart home		
(4) Customization of national environment.		
(5) Customization of automobiles.		

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- Consider the following relations to answer questions from 36 39. Student (Stu_ID,Stu_Name,Sex,Address,DOB,Class) Subject (Sub_ID,Sub_Name) Result (Stu_ID,Sub_ID,Mark)
- 36. Which of the followings can be considered as the candidate key regarding the student relation?(1) Stu_ID(2) Stu_Name(3) Sex(4) Address(5) DOB
- 37. Which of the following ER diagram that correctly denotes the relationship between entities through the above relations?

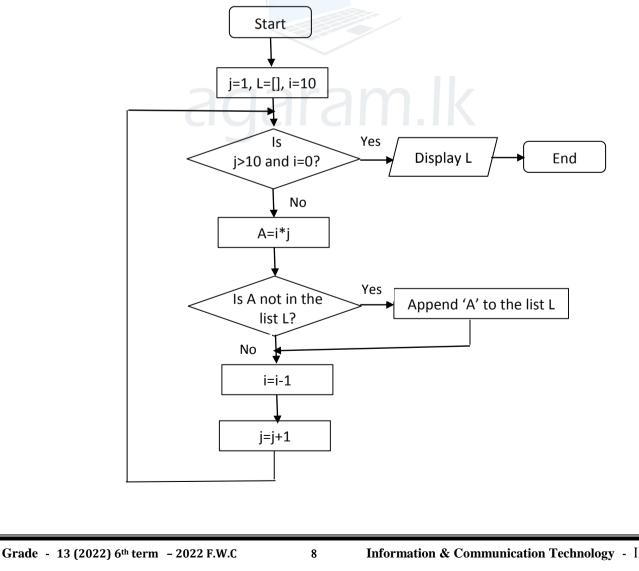


- 38. Which of the SQL commands is used to display the number of the male students in the field of No_Of_Male_Students?
 - (1) COUNT(Stu_ID) No_Of_Male_Students FROM Student WHERE Sex='Male';
 - (2) SELECT COUNT(Sex) No_Of_Male_Students FROM student WHERE Sex='Male';
 - (3) SELECT COUNT(Stu_ID) FROM Student WHERE Sex='Male';
 - (4) COUNT (Sex) No_Of_Male_Students FROM Student WHERE Sex='Male';
 - (5) COUNT (Stu_ID) FROM Student WHERE Sex='Male';
- 39. Which of the SQL commands is used to display the names of subjects that the candidates sat for?
 - (1) SELECT Sub_Name FROM Subject;
 - (2) SELECT Sub_Name FROM Subject and Result WHERE Subject.Sub_ID=Result.Sub_ID;
 - (3) SELECT DISTINCT Sub_Name FROM Subject, Result WHERE Subject.Sub_ID=Result.Sub_ID;
 - (4) SELECT Sub_Name FROM Subject,Result WHERE s.Sub_ID=r.Sub_ID;
 - (5) SELECT DISTINCT(Sub_Name) FROM Subject,Result WHERE s.Sub_ID=r.Sub_ID;

7

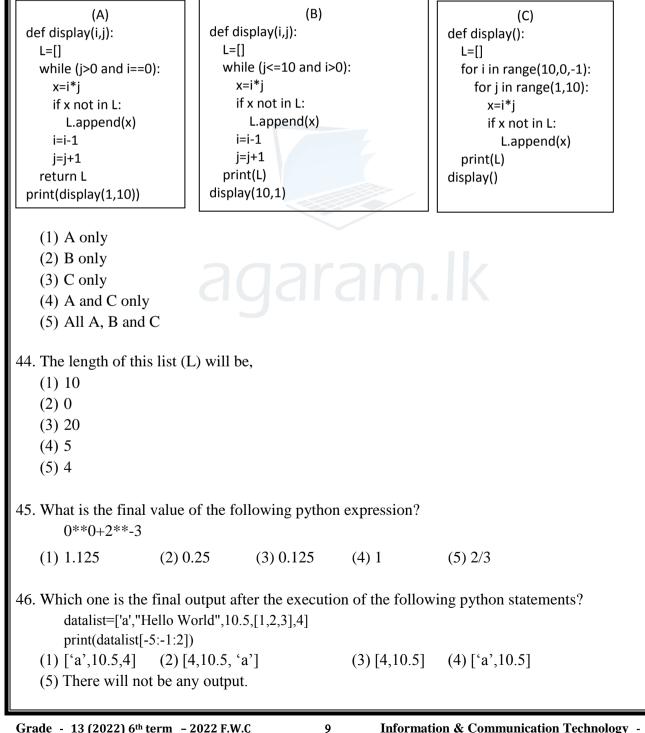
- Consider the following relations to answer the questions 40 and 41. Student(StudNo,Surname,Forename,Address,Sex) Enrolment(StudNo,CrseCode,CrseTitle,TutNo,TutName)
- 40. Which is the correct statement regarding Enrolment?
 - (1) It is in the zero normal form.
 - (2) It is in the first normal form.
 - (3) It is in the second normal form.
 - (4) It is in the third normal form.
 - (5) The normal form cannot be decided.
- 41. Which of the followings is included in the schema form when the above relations are transferred to 3NF?
 - (1) Student(StudNo,Surname,Forename)
 - (2) Enrolment(<u>StudNo,CrseCode</u>,TutNo,TutName)
 - (3) Course(<u>StudNo,CrseCode</u>,CrseTitle)
 - (4) Tute(<u>TutNo</u>,TutName)

- (5) Answers 3^{rd} and 4^{th} are correct.
- Use the following flowchart to answer the questions 42, 43 and 44.

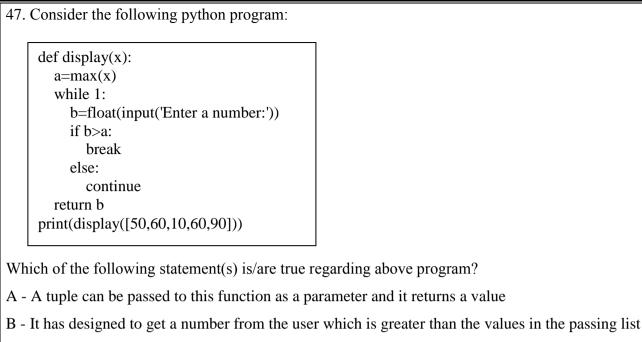




- 42. Which of the following statement is true about the flowchart given above?
 - (1) This flowchart consists of a never ending loop
 - (2) Loop will run for ten times and when it stops the values of i and j will be 0 and 11
 - (3) Loop will stop when $i \le 0$ and j = 10
 - (4) This loop will not start because the conditions given become false at the beginning of the loop
 - (5) This flowchart indicates a repetition inside a selection
- 43. Which of the below python code correctly gives the output of above flowchart?







- C The condition of this loop will not become false in any instance
 - (1) A only
 - (2) B only
 - (3) A and B only
 - (4) A and C only
 - (5) B and C only

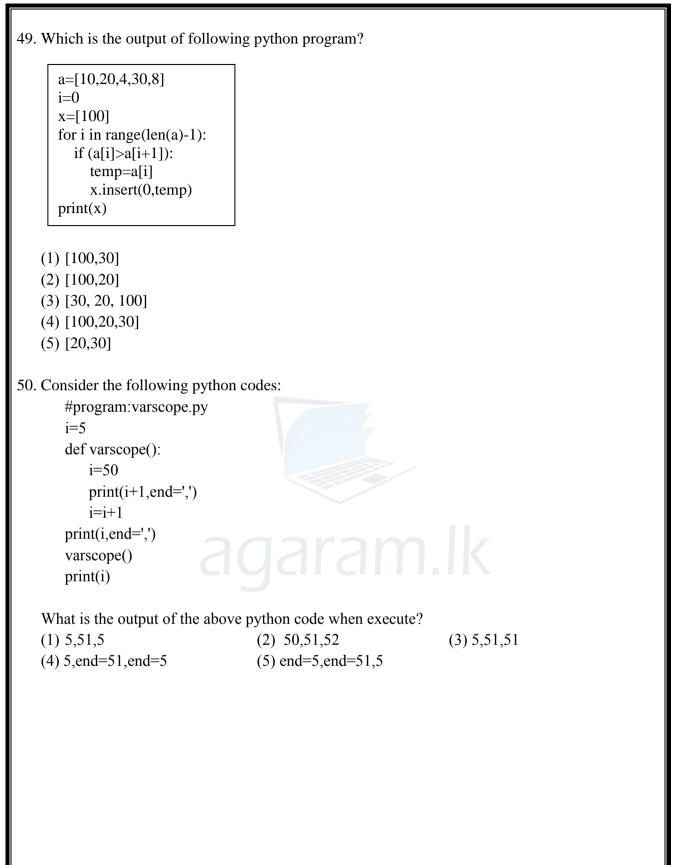
48. Consider the following python code:

```
def abc(n):
  j=1
  k=1
  for i in range(1,n+1):
     print(k,end=' ')
    j=j+1
     k=k+j
n=6
abc(5)
```

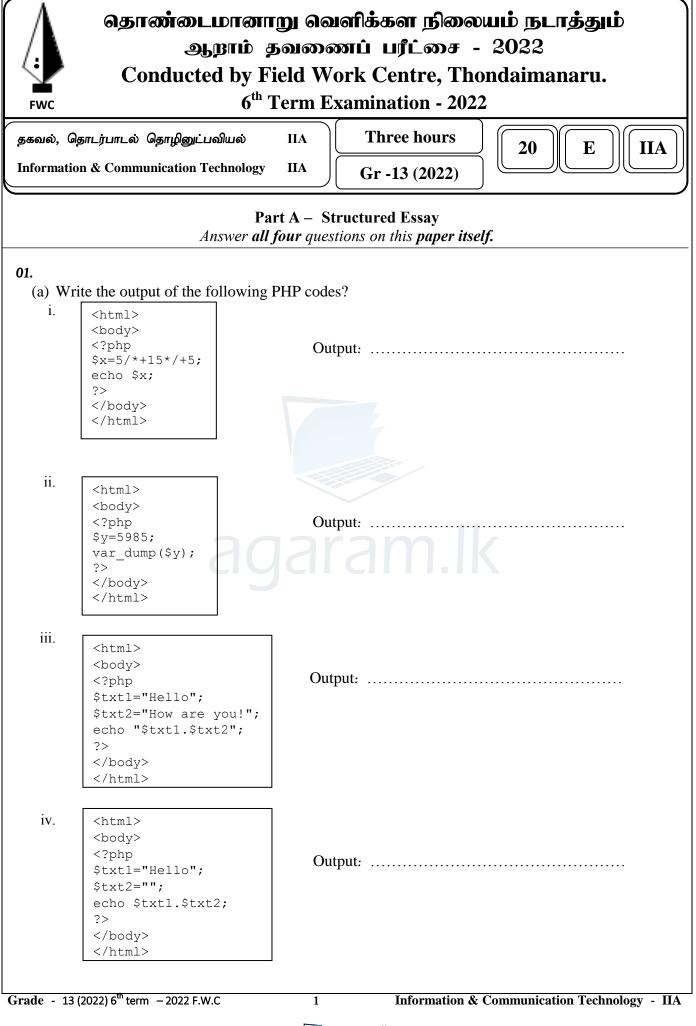
What is the output of the above program?

(1) 1 2 3 4 5 6(2) 1 4 9 16 25 (3) 21 15 10 6 3 1 (4) 15 10 6 3 1 (5) 1 3 6 10 15





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) Convert the decimal number 16.125_{10} i	nto octal	number?
(c)	Show that, the negative value of 6 represented in two's complement.	0001101.	I_2 is 11100101_2 . Here, both two numbers are
(d)	State four advantages of using two's c a computer.	omplem	ent representation for data in internal operations of
			<u></u>
	Operating system has been designed accontatement? Give reason?	ording to	the particular CPU family." Do you agree with this
	aga		<u>2001K</u>
fc 01	The virtual memory address space of a following address. 110101111011001) Write memory space in KB? (Consider		ter which uses virtual memory is related to the ldressable')
(ii)) If a page size is 4KB (Kilo Byte). Writ	the nec	essary bits used to denote a page?
<u> </u>	- 13 (2022) 6 th term – 2022 F.W.C	2	Information & Communication Technology - IIA

Grade - 13 (2022) 6th term - 2022 F.W.C



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(iii)Write the address range?

(c) According to the process scheduling algorithm of Round Robin, calculate the average waiting time to execute the following processes.

Process	P1	P2	P3	P4
Arrival time	0	1	2	3
CPU Burst time/Process time	20	4	3	6

Consider, Quantum time = 3ms

03.

(a) Consider the following table "EMPLOYEE".

				7
empNo	empName	Designation	Department	basicSalary
E001	Rajah	Manager	FIN	51000
E002	Kumar	Clerk	FIN	33000
E003	Mala	Clerk	ACC	30000
E004	Ravi	Engineer	PROD	50000

Write the SQL query for the following each needs?

(i) Insert the details of the new employee as E007, Vimal, System Engineering, IT, 50000.

(ii) Get the all details of the employees who gain basic salary greater than or equal 40000?

.....

Grade - 13 (2022) 6th term – 2022 F.W.C



	Get the details o	of the employee	numbers of eac	ch department a	and total basi	ic salary?
(b) Exp (i)	olain briefly the fo Partial depende	-	related to datab	base.		
				•••••		
(ii)	Transitive depe	endency				
(11)	Transitive depe	endency				
				•••••		
(c) Given below ta	ble describes th	ne details of the	Medical Institu	ute.	
(c					-	
(c) Given below ta PatientID		ne details of the MedicalTest	MedicalTest	ute. Date	
(c	PatientID 1005	PatientName Nimal		MedicalTest Value (Rs) 200.00	Date 2015.02.10	
(c	PatientID 1005 1210	PatientName Nimal Theebiga	MedicalTest Blood test Urine test	MedicalTest Value (Rs) 200.00 300.00	Date 2015.02.10 2015.02.11	
(c	PatientID 1005 1210 1403	PatientName Nimal Theebiga Alwis	MedicalTest Blood test Urine test X-ray	MedicalTest Value (Rs) 200.00 300.00 450.00	Date 2015.02.10 2015.02.11 2015.02.11	
(c	PatientID 1005 1210 1403 1005	PatientName Nimal Theebiga Alwis Nimal	MedicalTest Blood test Urine test X-ray X-ray	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12	
(c	PatientID 1005 1210 1403 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal	MedicalTest Blood test Urine test X-ray X-ray Urine test	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
(c	PatientID 1005 1210 1403 1005	PatientName Nimal Theebiga Alwis Nimal	MedicalTest Blood test Urine test X-ray X-ray	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12	
	PatientID 1005 1210 1403 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
	PatientID 1005 1210 1403 1005 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
	PatientID 1005 1210 1403 1005 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
	PatientID 1005 1210 1403 1005 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
	PatientID 1005 1210 1403 1005 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
	PatientID 1005 1210 1403 1005 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
• W] 	PatientID 1005 1210 1403 1005 1005 1005	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal normal form of	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test the above table	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
W]	PatientID 1005 1210 1403 1005 1005 1005 hat is the current	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal normal form of	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test the above table	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
W]	PatientID 1005 1210 1403 1005 1005 1005 hat is the current	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal normal form of	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test the above table	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
W] 	PatientID 1005 1210 1403 1005 1005 1005 hat is the current	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal normal form of	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test the above table	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	
W] 	PatientID 1005 1210 1403 1005 1005 1005 hat is the current	PatientName Nimal Theebiga Alwis Nimal Nimal Nimal normal form of	MedicalTest Blood test Urine test X-ray X-ray Urine test Physical test the above table	MedicalTest Value (Rs) 200.00 300.00 450.00 450.00 300.00 500.00	Date 2015.02.10 2015.02.11 2015.02.11 2015.02.12 2015.02.12	

04.	
(a) (i)	Provide a suitable definition for a system.
(ii)	Using the definition suggested in (i) above, show that a radio is a system.
(iii)	"Radio is a closed system." Do you agree? Justify your answer.
	<u> </u>
(iv)	State whether following requirements are essential functional / nice to have functional /
	essential nonfunctional / nice to have nonfunctional.
	1. Connect the flash drive into radio and then listen the song from flash drive.
	2. Radio has two speakers.
Grade - 13	3 (2022) 6 th term – 2022 F.W.C 5 Information & Communication Technology - IIA

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(b)

Select and write the correct terms given in the list to match the sentences from (i) to (vi) related to e-commerce

List = {Pure Brick, Back end process, e-Business, Group purchasing, Front end process, B2B, Brick and Click, B2C, Web portal, e-Commerce, Web Content}

- (i) This type of companies integrated both type of online and offline methods.
- (ii) Shopping cart, payment gateway and electronic catalogs are considered as:
- (iii) The collective buying power of its members to secure discounted prices on the goods and services they need to run their businesses
- (iv) This is a specially designed website that brings information from diverse sources.
- (v) Online version of traditional retail seller.
- (vi) Buying and Selling goods and services through the electronic system.

(i)	
(ii)	
(iii)	
(v)	
(vi)	



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அற	ானாறு வெளிக்கள <u>ந</u> ம் தவணைப் பரீட்எ by Field Work Centre 6 th Term Examination	சை - 2022 e, Thondaimanaru.		
தகவல், தொடர்பாடல் தொழினுட்பவியல்				
Information & Communication Technol	Information & Communication Technology IIB			
	Part B Answer any four questions on	ly.		
only once. One who gets more vo Consider the following Boolean v Candidate A: Boolean value 1 Candidate B: Boolean value 0 i. Construct the truth table on th ii. Give the Boolean expression iii. Simplify the Boolean expression iv. Draw the logic circuit for the diagram? 20 19 18 1 2 3	the set of above situation? for the candidate A to win? ion got in (ii) by using the Bool expression got by simplifying 17 16 15 14 13 12 11	in (iii) using the gates only given in the $\frac{8}{7}, \frac{6}{6}, \frac{5}{5}$		
 v. Give the Boolean expression for the candidate B to win? 2. What is STAR connectivity in the computer network? Give two advantages and disadvantages of STAR connectivity. Write down the relevant network address and the subnet mask for a host with the IP address 194.168.0.1/26? Assume that we need to make four subnets from the above address block (194.168.0.1/26) for four buildings. Write down relevant network address, subnet mask, and the allocation range of IP addresses for each building using the following table format to present your answer. 				
Building Network Addre	ess Subnet Mask	IP address Range		
В				
C D				

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- iv. Draw the network diagram to fulfil the below requirements with describe the situation in the above part (iii).
 - ✓ Building A, get the internet connection from the Internet Service Provider.
 - ✓ Other buildings are connected to Building A. Building A, separated 500m distance from other buildings.
 - ✓ Proper servers connected to the network in building A, in order to reduce the network traffic among computers in the network and mapping domain name into IP address.
 - \checkmark IP addresses are assign automatically for each computer in every buildings.
 - \checkmark You have 4 network switches and required wires.
 - \checkmark Computer network is protected by honeypot to prevent unauthorized access.

3.

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- (a)(i) Define the term 'algorithm' in programming?
- (ii) Write down two methods to represent algorithms?
- (b) Your teacher has requested you to write a Python program to record the marks obtained by students at the term test. Each student has sat for the same three papers and each mark was given as an integer value out of 100 marks. Each student is identified by a unique index number which is also an integer. You should record the **index number, marks1, marks2, marks3, total marks and average marks** of student in a text file named 'marks.txt' as shown in the Fig: 1.

		marks - Notepad			_ = ×
File Edit Format View Help	80	70	210	70.0	^
4965058 40	92	54	186	62.0	
		Fig: 1			

Index numbers and marks of the students should be entered through the keyboard, one item at a time and the program should be terminated when -1 is entered as the index number.

- (i) Propose an algorithm by using flowchart for the program.
- (ii) Write a Python program to implement your flowchart.
- 4. Construct the EER Diagram for the given scenario:

The software development organization database keeps track of its employees, departments and projects. The organization is arranged by departments. Each department has a Department name and ID number. A department controls a number of projects. Each project has a project name, PID to identify the project and project type. Each project is using zero or more parts supplied by any number of suppliers. One supplier can supply many parts to many projects, but must supply at least one part to a project. The projects are subdivided into internal and external funded projects. Funded projects are subdivided by foundation and corporation. Each foundation and corporation associated with the organization and is tracked by account department. Each account department stores a name, number, contract and account type. The employee's name, social security number and employee type are stored. An employee may be assigned to a department and may work on several projects, controlled by more than one department. The dependent's name and sex are stored for each employee. Most of the employees are subdivided into three major employee types – research, technical and testing.



5. (a) Consider website should be created to get the details of students. Home page of the website and login form of the website is shown in the figure 5.1 and 5.2.

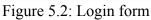


Figure 5.1: Home page

- i) backimage.jpg is shown in the background of website. Write the internal CSS code to create it. (homepage.htm and the backimage.jpg are in the same folder.)
- ii) Write the inline CSS code and html code by using following format to create the heading. Colour:- Red

Font:-	Times New Roman
Alignment:-	Centre aligned

🏉 Sign Up! First Name: A Last Name: Your Email: Re-enter Email: New Password: В Confirm Password: Date of Birth: Month -С Day 🔻 Year Sex:
Male Female D Ε Submit Reset F



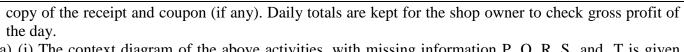
- i) Write the HTML code to create the part which is identified by label A?
- ii) Write the HTML code to create the part which is identified by label B?
- iii) Write the HTML code to create the part which is identified by label C? (It is enough to include what is shown in the diagram.)
- iv) Write the HTML code to create the part which is identified by label D?
- v) If you click Button E, the form's information will be sent the file of html_form.asp. Write the HTML code to create Button E?
- vi) If you click Button E, the form's information will be deleted. Write the HTML code to create button F.
- 6. In Covid-19 pandemic period "Ammachi" started accepting orders for Jaffna traditional foods via phone calls and doorstep delivery. When customers call "Ammachi" on the phone, and the telephone operator records phone number, address, and customer order, once the order is taken, the total, including tax and delivery, is calculated. Then the order is given to the chef. Drivers who make deliveries give customers a

Grade - 13 (2022) 6^{th} term - 2022 F.W.C

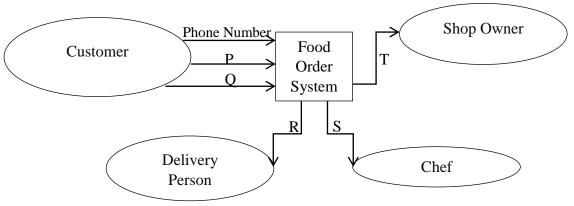
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(b)

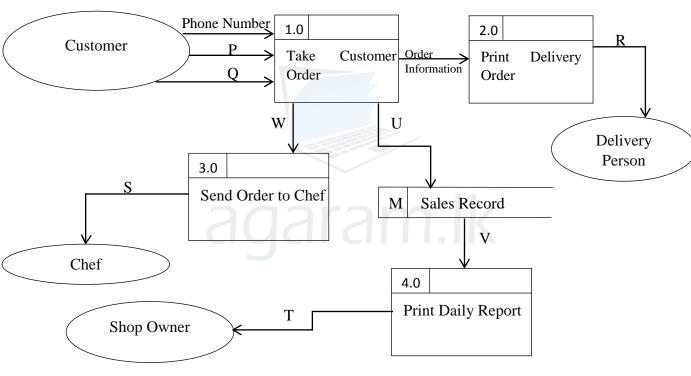
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(a) (i) The context diagram of the above activities, with missing information P, Q, R, S and T is given below. Identify P, Q, R, S and T labels.



(ii) Level 1 of the DFD for the context diagram is shown below. Identify U, V and W Labels.



(b)

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- Briefly explain the key difference between functional and non-functional requirements as used in (i) system development life cycle.
- The following list includes some functional and non-functional requirements of a proposed (ii) Library Management System.
 - A. Enable to add new books to library book collection.
 - B. The system should work on any operating system.
 - C. Admin should be able to delete members due to some specific rules.
 - D. Admin should confirm returns of books borrowed by users.
 - E. The system should have different language versions.
 - F. System will have different type of users and every user have access constraints.
 - G. The system have user friendly interfaces.

Identify and write down the labels of the non-functional requirements in A to G relevant to library system.

