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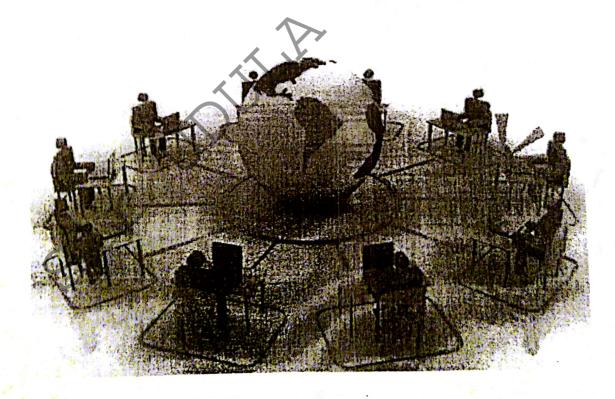
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Department of Examinations - Sri Lanka

G.C.E. (A/L) Examination - 2017

20 - Information and Communication Technology

Marking Scheme



This has been prepared for the use of marking examiners. Changes would be made according to the views presented at the Chief/Assistant Examiners' meeting.

Amendments to be included.

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ATT THE STAR	எப்பைக்கு கைது வைது (குக் கைது) கிலைக் 2017 அணைத்து கல்விப் பொதுத் தரைதாப் பத்திர (உயர் தரப் பரிட்சை, 2017 தகல்த General Certificate of Education (Adv. Level) Examination, August 2017
	கைப்போடும் கைச்சில் கொழினுட்பவியல் I தகவல், தொடர்பாடல் தொழினுட்பவியல் I Information & Communication Technology I
I	 mstructions: * Answer all the questions. * Write your Index Number in the space provided in the answer sheet. * Instructions are also given on the back of the answer sheet. Follow those carefully. * In each of the questions 1 to 50, pick one of the alternatives from (1), (2), (3), (4), (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (x) in accordance with the instructions given on the back of the answer sheet. * Use of calculators is not allowed.
	Who proposed the stored program concept first?(1) Lady Ada Augusta(2) Charles Babbage(3) Howard Aiken(4) Blaise Pascal(5) Von Neumann
•	Which of the following components is generally seen outside the Central Processing Unit (CPU) of a computer(1) RAM(2) Control Unit(3) ALU(4) General purpose registers(5) L1 cache memory
•	What is the two's complement representation of 45, if an integer is represented by 8 bits? (1) 11010011 (2) 10110011 (3) 11001101 (4) 00101111 (5) 00101101
•	Which of the followings is another name for web publishing?(1) Offline publishing(2) Desktop publishing(3) Media publishing(4) Online publishing(5) Self publishing
•	Which of the following secondary storage devices is generally considered to provide the fastest access it data? (1) Compact Disc (4) Magnetic tape (5) Floppy disk (3) Internal hard disk
	Which of the followings is usually used to boot-up personal computers? (1) Firmware (2) Malware (3) Adware (4) Ransomware (5) Liveware
	Which of the followings is a main use of Complementary Metal-Oxide Semiconductor (CMOS) memory a personal computer?
	 Keeping inputs for processing Holding instructions for operations Providing space for loading operating system Retaining information for output Keeping Basic Input Output System settings for the booting procedure
	The execution of a series of non-interactive jobs on a personal computer with relative to the user is known(1) multitasking.(2) multiuser processing.(4) batch processing.(5) online processing.
	Which of the following numbers is equivalent to the binary number 101111_2 ? (1) 57_8 (2) 57_{16} (3) 57_{10} (4) 59_{16} (5) $5F_{15}$
	$5D_{16} + 10111_2 =$ (1) 73, (2) 75 ₁₆ (3) 116 ₈ (4) 163, (5) 164,
	What is the binary representation of 9.25_{10} ? (1) 1110011101 (2) 00001001.01 (3) 0000100101 (4) 1000100101 (5) 10001001.01

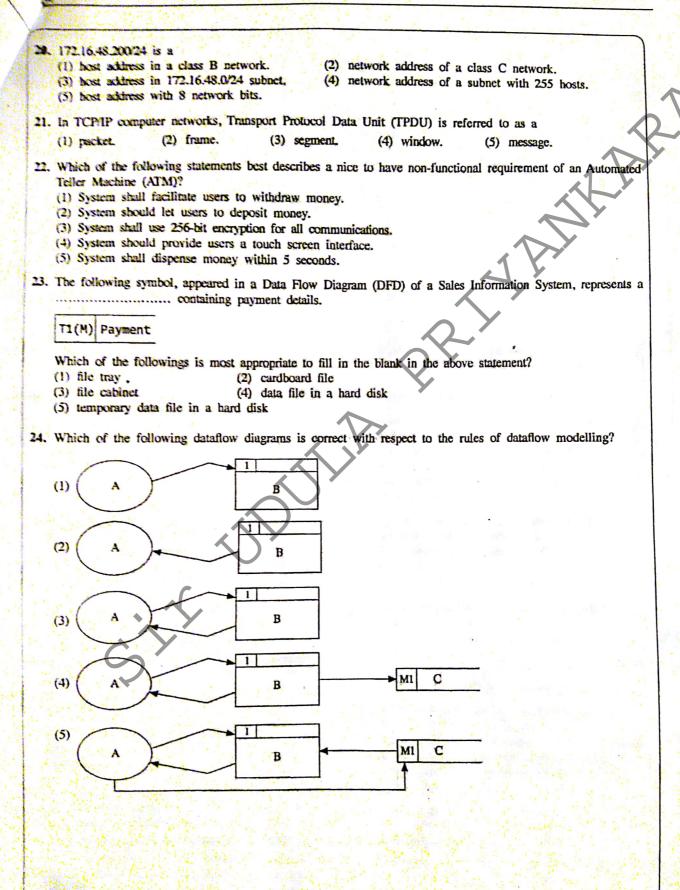
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Which of the followings is the most appropriate to fill in the blank in the above statement? (5) ROM (4) Slot (3) RAM (2) Clock (1) Bus 13. Consider the following HTML code: AR <html> <heat ditle Countries /title shead> <body> <!- <hi> \$ri Lanka </hi> -> <body> </html> Which of the followings correctly describes the display, when the above code is rendered? (1) The text "Country" appears on the title bar and the text "Sri Lanka" appears as a header. (2) The text "Sri Lanka" appears on the title bar and the text "Country" appears as a header. (3) The text "Country" appears on the title bar. (5) The text "<1-<h1> Sri Lanka </h1>->" appears in the body of the web page. 14. Consider the "Submit" button of an HTML form given below: Submit Which of the following tags/elements correctly implements the intended function of the above "Subm button? (1) <input type = "submit" value = "Submit"> (2) <input type = "button" value = "Submit"> (3) <button type = "button" >Submit</ button> (4) <button type = "submit"> button> (5) <button type = "submit" value = "Submit"></ button> 15. Which of the following CSS rules renders the image in the file "school.png" as the background of a web pag (1) body { background = "school.png"; } (2) body-{ background: url ("school.png"); } (3) body { background-image = "school.png"; } (4) body { background-image: "school.png"; } (5) body { background-image: url ("school.png"); } 16. In electronic mail systems, the protocol used by mail clients to retrieve messages from the mail server is (1) Simple Mail Transfer Protocol (SMTP). (2) File Transfer Protocol (FTP). (3) Internet Control Message Protocol (ICMP). (4) Internet Message Access Protocol (IMAP). (5) Telnet. 17. The transport layer protocol User Datagram Protocol (UDP) can be used for (2) guaranteed delivery. (1) reliable communication, (4) ordered delivery. (3) connection oriented communication. (5) exchanging state information among routers. 18. Which of the following statements regarding MAC addresses is correct? (1) Every network device has a unique MAC address. (2) Every network host has a unique MAC address. (3) Every network interface has a unique MAC address. (4) It is assigned for a device at the time of installation. (5) It is used for routing. 19. The first and the last IP addresses of a subnet are 192.192.48.0 and 192.192.63.255 respectively. Which of the followings is the subnet mask of this subnet? (1) 255.255.255.0 (3) 255.255.255.192 (2) 255.255.192.0 (4) 255.255.240.0 (5) 255.240.0.0

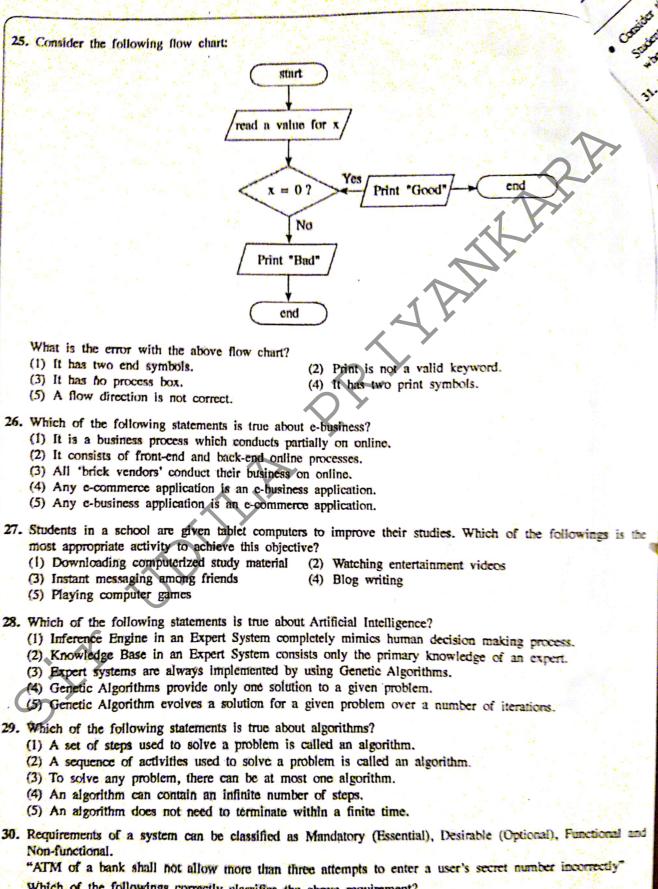
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Which of the followings correctly classifies the above requirement?

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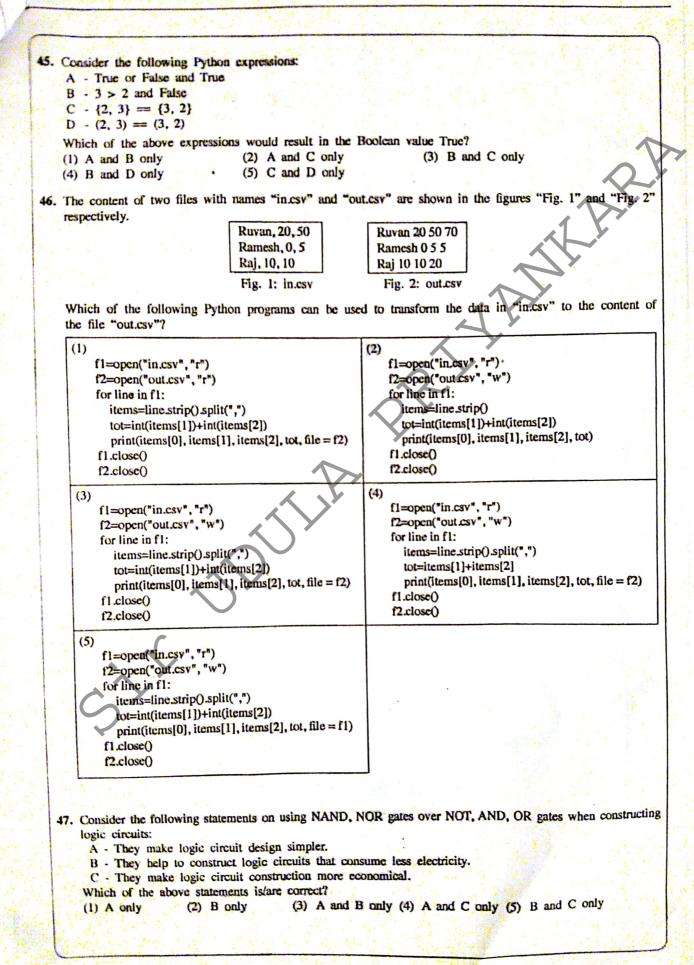
(1) Mandatory, Functional (3) Desirable, Functional

- (2) Mandatory, Non-functional
- (4) Desirable, Non-functional
- (5) Mandatory or Desirable, Functional

5

• Consider the following relation to answer questions 31 and 32: Student (index_no, national_id_no, name, date_of_birth, gender, blood_group) where index no is a unique attribute and the name attribute fully depends on the index no attribute. 31. Which of the following statements is correct with respect to the normal form of the above relation? (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) Its normal form cannot be decided. 32. Which of the followings can be a candidate key of the above relation? (1) national_id_no (2) name (3) date_of_birth (4) gender (5) blood_group Consider the following relations to answer questions 33 to 36: book (book_no, title, publisher, edition) author (author_id, name, email_address) bookAuthor (book_no, author_id) where book_no and author_id are unique attributes in the relations book and author respectively. 33. Which of the following statements is correct with respect to the relation bookAuthor? (1) book_no is the primary key. (2) author_id is the primary key. (3) Any single attribute can be a candidate key. (4) author_id is a candidate key. (5) book_no is a part of the primary key. 34. Which of the following Entity Relationship (ER) diagrams conectly represents the relationship between the entities represented by the above relations? 1 (1)book write author (2)write book author m write (3)book author m n (4) write author book m m (5) write book author 35. Assume that above relations are converted into tables in a relational database. The following SQL query is executed on the database: SELECT * FROM bookAuthor Which of the following statements is correct regarding the output of the above SQL query? (1) It cannot be an empty table. (2) title column is in it. (3) name column is in it. (4) All the tables book, author and bookAuthor are used to produce the output. (5) All records in the bookAuthor table are in the output. 36. Consider the following statements regarding the Data Definition Language (DDL) used to create the table bookAuthor while maintaining data integrity: A - It has a primary key constraint. B - It has a foreign key constraint. C - It has a domain constraint. Which of the above statement/s is/are correct? (2) A and B only (1) A only (3) A and C only (4) B and C only (5) All A, B and C

37. Which of the following organs is a part of a closed system of the human body? (5) Lung (4) Kidney (3) Heart (1) Eye (2) Ear 38. Which of the following statements is correct? (1) Application software load applications into the main memory. (2) The programs stored in ROM are known as system software. (3) System software support data communication between peripheral devices. (4) Utility software is generally stored in ROM. (5) Utility software are incorporated in washing machines. 39. Consider the following data input devices: A - On screen keyboard (virtual keyboard) B - Bar code reader C - Magnetic card reader Which of the above devices can be used to input data more efficiently? .(4) A and B only (5) B and C only (1) A only (2) B only (3) C only 40. Consider the following statements regarding CSS used in HTML: A - One style sheet can define the rendering of HTML elements in multiple documents. B - No additional download is needed to import style sheets. C - The HTML document must include a <link> tage D - The style attribute is required in the relevant element, Which of the above statements are correct when using External Style Sheets? (3) B and D only (1) A and B only (2) A and C only (4) A, C and D only (5) B, C and D only 41. Which of the following statements about Python data types/expressions is correct? (1) String is a mutable data type. (2) List is an immutable data type. (3) [1, 2, 3] is a tuple. (4) The expression [1, 2, 3] [1] will produce [2] when executed. (5) The type of $\{a:1, 1:(1, 2)\}$ is a Dictionary. 42. Consider the following values: A - 2.3e2 B - TRUE C - "This isn't a string" D - " Which of the above values are valid in Python? (2) A and C only (3) B and C only (1) A and B only (5) A, C and D only (4) A, B and C only 43. Consider the following Python statement: temp = [1, 2, 3, 4, 5, 6] [2::2] Which of the followings is the value of the variable temp after executing the above statement? (4) [3, 5] (3) [2, 3] (5) [2, 4, 6] (2) 3, 5 (1) 2, 4, 6 44. Consider the following statements: a = b = 2 + 3A -B a, b = 2, 3С a, b = (2, 3)D a = (2, 3)Which of the above are valid assignment statements in Python? (3) C and D only (1) A and B only (2) B and C only (5) All A, B, C and D (4) A, B and C only



20 - information and Communication Technology (Marking Scheme) | G.C.E. (A/L) Examination - 2017 | Amendments to be included.

Mennething of Pratition of the Internet 48. Which of the following functions gives the sum of all elements in any list of integers? def f(x); (3) (2) def f(x): (1) def f(x); s=0 s = x[0] 8 - x(0) for i in x: for 1 in range (1, len(x)): for I in range (0, len(x)): s=s+i 5=5+i 148-88 return s return s return a (4) def f(x): (5) def f(x): s=0 a = 0 for i in x: 1=0 while i < lcn(x): 8-8+ x[1] return s 8=5+ x[i] return s 49. Consider the following system implementation methods: A - Direct B - Pilot C - Parallel Which of the above method(s) Is/are generally used to implement a home security system? (3) C only (1) A only (2) B only (4) A and B only (5) A and C only 50 Consider the following clauses: A - can response to relevant environment changes B - always acts according to well-defined user instructions C - performs only pre-defined set of tasks D - can make decisions under incomplete information Which of the above can be considered as properties of software agent system? (3) A and D only (2) A and C only (1) A and B only (5) C and D only (4) B and C only

20. Information and Communication Technology (Marking Scheme) 1- G.C.E. (A/L) Examination - 2017 1 Amendments to be included

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4.	4	14.	1	24.	3.	34.	4	44.	5
5.	3	15.	5	25.	5	35.	5	45.	2
6.	1	16.	4	26.	2,4	36.	5	46.	3
7.	5	17.	5	27.	1	37.	3	47.	5
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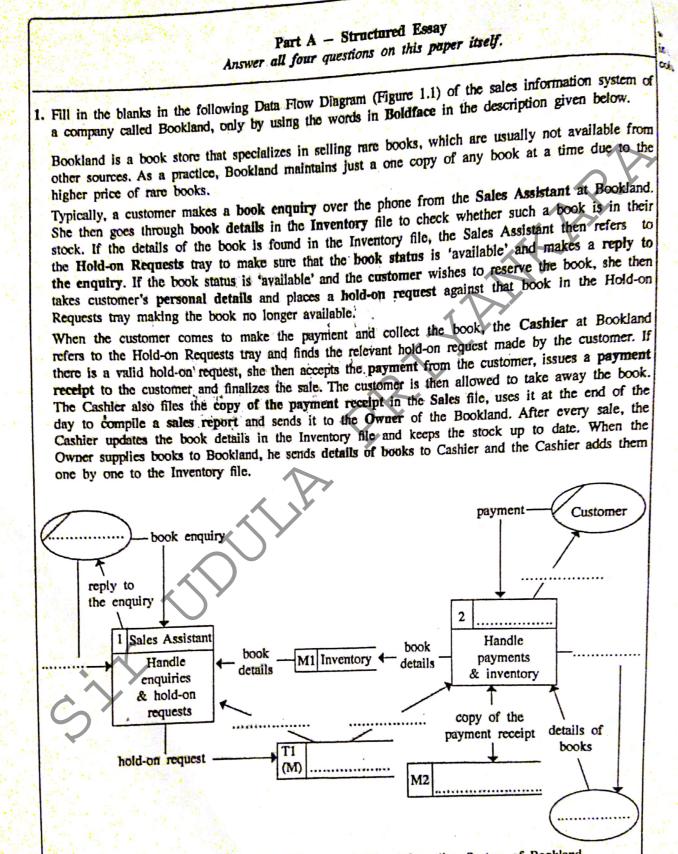


Figure 1.1: Level 1 Data Flow Diagram of Sales Information System of Bookland

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(b) H	explain the main actions performed by an operating system during context switching.	
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(c)	Explain what will happen during the booting process of a computer.	
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3. (2) (i) Write three key conditions to be satisfied in order to classify a transaction/service between	
a life	two persons as B2B in e-commerce.	
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1.000	(ii) If the seller in the above transaction is replaced by a software agent, state the key proactive	
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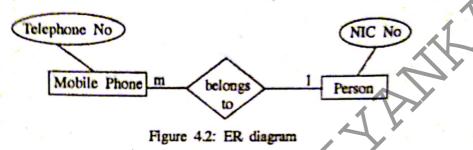
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1

(ii) Explain the reason for drawing the diagram which you drew for (i) above.

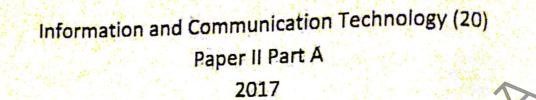
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(b) A person can own one or more mobile phones. One mobile phone belongs to a single person only. Assume that a mobile phone can be uniquely identified by its telephone number. National Identity Card number (NIC No) is used to identify a person uniquely. Above statements are represented by the ER diagram in Figure 4.2.

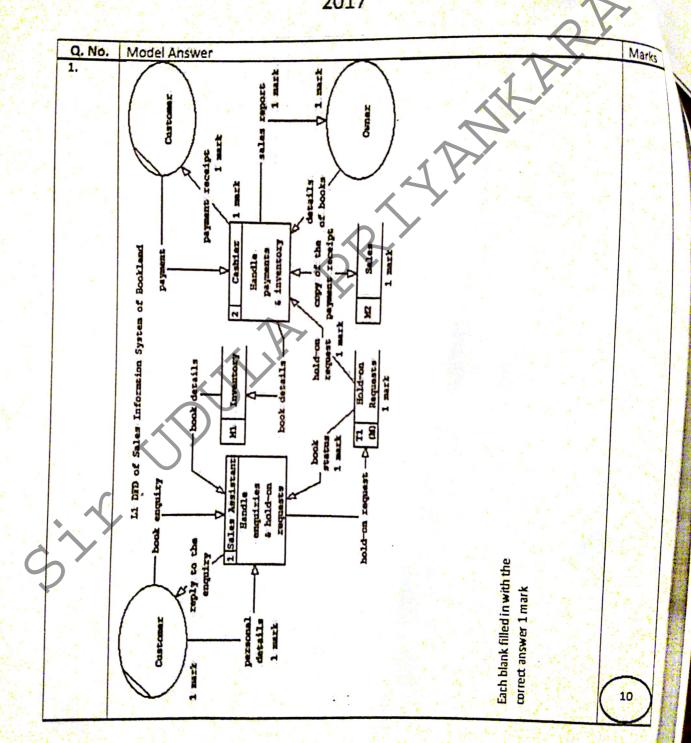


Convert the above ER diagram into 3rd Normal Form relations to be implemented in relational database.

2



2.10)



20 - Information and Communication Technology (Marking Scheme) - I. G.C.E. (A/L) Examination - 2017. I Amendments to be included.

20.4

2.(a)	Termination (end) of the process	1x3
	Time out (end of the time slice)	1. 1. 1. 1.
1. 1. 1. 1.	Blocked for input/output operation reduce of	\bigcirc
17 m	1 monto	J
2.(b)	 Store the current state of the running process in the PCB. 	1
	 Load the state of the process to be continued to the CPU from the PCB. 	2 or 0
- 10 - 13	Transfer the control to the process to be continued.	1
1. 6 8		(4)
2.(c)	Power on self test (POST)/Executing or running BIOS	1x3
	 Run the bootstrap program to load the O/S to the main memory. 	
	 Transfer the control to the O/S. 	\bigcirc
		(3)
3.(a).(i)	A transaction between two persons can be classified as B2B if following conditions are	1×3
	satisfied (Introvut also old)	
1	1. It should be an online service/transaction.	
la se	2. The buyer should be a business user	
the second	3. The seller should be a business user	\bigcirc
1. S. 1		(3)
3.(a).(ii)	If the seller is replaced by a software agent, then agent represents a business user.	2010
	Therefore, main proactive behavior is to take actions that makes high business profit.	12
	12000000000 / Smponhity and dury 1	TE
3.(b).(i)	insert into student] A more [A only]	1
	values('10001', 'Saman Kumara', '78, Mahara road, Maharagama') [A and B only]	2
	[A, B and C]	3
	в	
	Or	
		1.1
	insert into student (student_no, name, address)	
	values('10001', 'Saman Kumara', '78, Mahara road, Maharagama')	14 A
1 in 1 in 1		
	The order of the values in the values statement should be same as the order of	and and a second
	attributes in insert statement.	1 the second
1 a.		
	Note: All names should be as in the table definition.	(3)
1	1	40
3.(b).(ii)	update student set address = '13, School Lane, Jaffna'] 1mark 2 mmr. where student_no like '10001%' } 1mark	T 4
14 0	set address = '13, School Lane, Jaffna' I how 2 J Chis sho poge	1
	where student_no like '10001%' } 1mark	Sec. 1. 500
1		1
1 an and	or	$f_{\rm eff} \approx 2 f_{\rm eff}^2$
Sty . W	Late student	6. 2 .
the product	update student set address = '13, School Lane, Jaffna'	
建筑 化化	where student_no like '10001' } 1mark	1.1.1
a the second		Ser Per
经历时代资	해준다. 영상 전문에서 그 것이 그 여름을 감독하는 것이 없다. 것은 방법을 위한	6 8 18
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	약 승규는 Marcol Martin Solar Solar No. 2017 No. 201	L. Ling

tmark 2 update student set address = '13, School Lane, Jaffna' where student_no = '10001' } 1mark (Note: The = sign only works for varchar type attributes) Or set address = '13, School Lane, Jaffna' (Assumption: Only one student record in the database) } 1mark 3 Be rei o tang be then we don't artite system with 4.(a).(l) Output Input Process of notation 15 Tuy should with 1 System boundary In closed system both input and output are available within the system. System 5 or 0 burnt. 4.(a).(ii) Or A sentence with the same meaning not sprank person(NICNo) 4.(b) mobilePhone(TelephoneNo, NICNo) 2 Each correct relation with attributes 1 mark 2 Each primary key 1 mark (only if the relation is correct) If they have any taken (1) primmy then is turn then we will give (2) Small without 20tron Torble-

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General Continues of Description of the 2017 control
emulaci au aminielen muniera II
Information & Communication Technology II
* Answer any four questions only. Part B
1. A switch (A), a temperature sensor (B) and a timer (C) of an air-conditioner determine turned on and turned of states of the air-conditioner. Turned on and turned off states of the air-conditioner.
off states of the air-conditioner. Turned on and turned off states of the air-conditioner determine turned on and turned and 'OFF' states of the switch, temperature senser and the states of the air-conditioner as well as the 'ON'
0, respectively.
The air-conditioner can be turned on or off manually by setting the switch to its 'ON' or 'OFF' states, respectively.
The temperature sensor detects the temperature in the room. The temperature sensor sets its state as 'ON'
the second
The air-conditioner is automatically turned on or off when the detented temperature is respectively higher or lower than the pre-defined temperature value.
The timer sets its state as 'OFF' until it reaches a preset time value and sets the state as 'ON' once it
reached. The air-conduitoner is automatically turned off when the timer reaches the preset time value.
(a) Construct a logic circuit using only NOR games to control the air-conditioner. Clearly show truth table,
Boolean expression and Boolean algebraic rules used for simplification. Assume that the electricity is
always supplied to the air-conditioner
(b) The user of the air-conditioner says that the switch is not required for the operation of the air-conditioner. Do you agree with this statement? Justify your answer.
be yet agite with this summary yeth miswel.
2. A "Demilitarized Zone (DMZ)" is a subnet that contains and exposes an organization's external-facing services
such as web servers (public IR addresses) to the Internet while hiding away the rest of the network behind
a firewall (using local IP addresses).
A network with a DMZ belonging to an organization has been assigned the public IP address range 123.45.67.0 with subnet mask 255.255.255.255.224. The DMZ contains the web server and the mail server. It has 4 additional with subnet mask 255.255.255.255.224.
subnets for internal use having the private IP address range 10.0.0.0 with the subnet mask 255.0.0.0. Computers in each subnet can access resources in all other subnets. The organization decided to connect the 4 subnets
to the Internet through a proxy server. There is also an application server for its internal clients.
Identify the devices required to establish this network and draw a network diagram to show the logical
arrangement of the organization's computer network. Show all the elements of the network with appropriate IP addresses. Clearly show all calculations stating assumptions you made.
Further, it is also required to explain the changes done to an IP packet released by a computer to a subnet
by the proxy server when it travels to the Internet.
3. A state health authority decided to conduct an awareness program as an online service through Internet to
reduce dengue infection by transmission of the virus through the mosquitoes. This service provides information
on how to adopt dengue control approaches, such as cleaning the environment, destroying non-essential containers that provide larva habitats etc., in order to minimize mosquitoes' propagation.
(a) To which e-commerce type does this service belong?
(b) If the service is extended by allowing organizations to register their services targeting minimizing the spread, what is the e-commerce type of this extended service? Justify your answer.
(c) Assume that a registered organization provides a service for itself to submit the details of the identified dengue breeding places to the state suffority online. Why is this service not rightly considered as B2B? What is the correct e-commerce type of this service?

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- (d) An expert system is proposed to develop policies to fine the owners of the locations where dense mosquitoes have been detected. Accordingly, experts in Attorney General's Department and epidemiology units are consulted. Since key contributions that are expected from each expert to develop the Knowledge base of the expert system. (Hint: The contribution of one expert should be an input to the decision making process of the other expert).
- 4. The consumption of electricity at houses is charged based on the number of units compared. The first 64 units are charged at Rs. 5.00 per unit, and the rest at Rs. 10.00 per unit.
 - (a) Draw a flowchart to represent an algorithm that can be used to compute the total amount to be charged from a householder when the household number and present and the previous readings of the electricity meter are given.
 - (b) Encode the algorithm given in the (a) above in Python programming language. State all valid assumptions, if any.
 - (c) Develop a function in Python to write household number, meter readings and the total amount to be charged at the end of an existing text file named "deb.txf".

5. The candidates who have been selected for university entrance should register for the given academic year with the university given to them. Candidates who do not register before the 'Last date' announced by each university will lose their university entrance. Once a candidate register with the given university, the candidate becomes a registered student of that university. Registered students can apply for financial support, such as Mahapola scholarships and Bursary, separately. These financial support could be either full or partial. All registered students will receive a laptop. However, its ownership cannot be transferred to another student. The user requirements of the above system are listed below. A user shall be able to obtain:

- (a) a list of students registered for a given academic year with a given university.
- (b) information (such as model, serial number and warranty period) about the laptops given to each student.(c) list of students who applied for financial support.

Draw an Entity Relationship (ER) diagram required to design a database to represent the above system description and to satisfy the user requirements. State all your assumptions clearly.

6. Environmental Institute of Colombo intends to develop a website to provide information on an art competition for students. A web page from this website and another web page with the entry form to register for the competition are shown in the Figure 6.1 and Figure 6.2 respectively.



Figure 6.1: A web page of the website

(a) Using appropriate HTML tags, create an HTML file required to render the web rage as the a Figure 6.1. Your code should satisfy the following requirements.

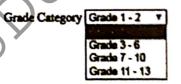
It is required to format the text of the list in 'Calibri' font, 14 points high, in red color. The list should be bulleted with squares. Format the list by using internal or external spie sheets only.

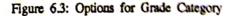
Further, when a user clicks on the hypertext 'online entry form' on the web page, the entry form given in Figure 6.2 should be rendered on a new tab/page. Assume that the name of the HTML file of the web page with the entry form is 'form.html'.

Frier Frank	
Art Competition Online Entry Form 2017	
Theme: Litter on the environment	
Gender: O Male O Female	D'
Grade Category Grade 1-2	JP
El Water Colours El Colour Penchr El Crayon El Chali;	

Figure 6.2: Entry form

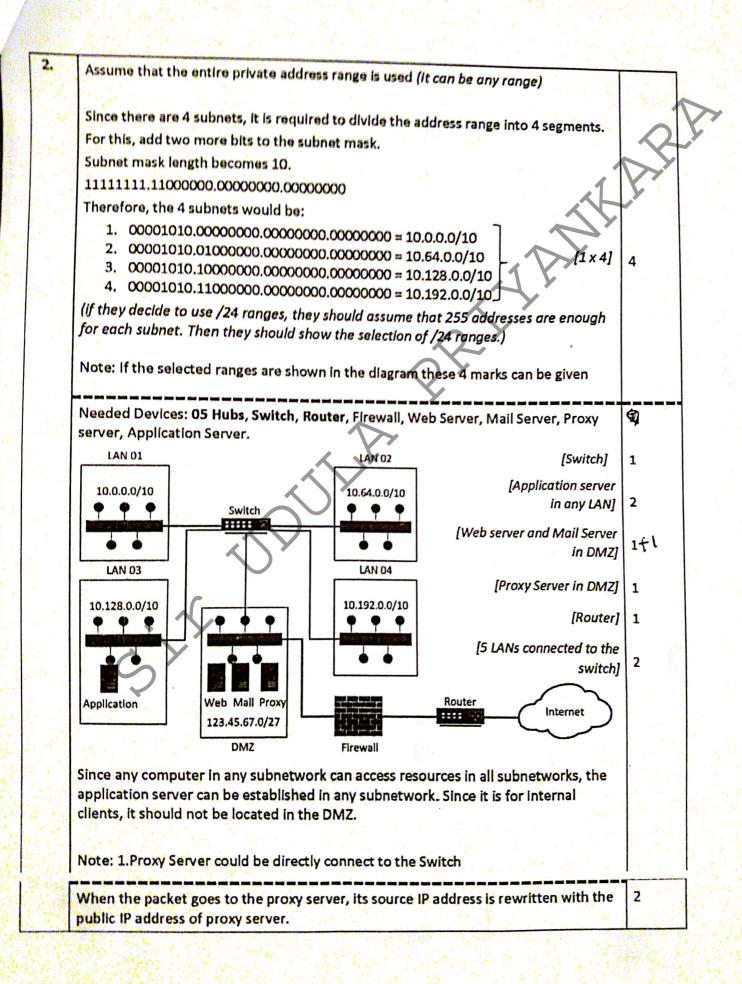
(b) Using appropriate HTML tags, create an HTML file to render the entry form given in Figure 6.2. The options for 'Grade Category' are given in the Figure 6.3. Your code should satisfy the following requirements. When the 'Clear your Entries' button is clicked, all the entries of the form should be cleared. Similarly, when the 'Submit' button is clicked, the form should be submitted to the server.





Information and Communication Technology (20) Paper II Part B 2017

Q. No.	Model Answer	Mark
1.(a)	Air-conditioner (Q) [Define output]	1
1	A B C Q 0 0 0 0 [Correct input columns + 8 combinations]	1+1
-	0 0 1 0 [Correct output column]	2
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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	Q = A'.B.C' + A.B.C' = B.C'.(A'+A) distributive law [Boolean expression]	3
	= B.C' complement law [[At least one correct rule] [Solution]	1 1
		3 or 0
		\sim
	l Optional	(13
.(b)	Yes. Input that represents Switch (A) is not in the Boolean expression/circuit/solution. Therefore, it is not required for the operation of the air-conditioner.	$\frac{1}{1}$



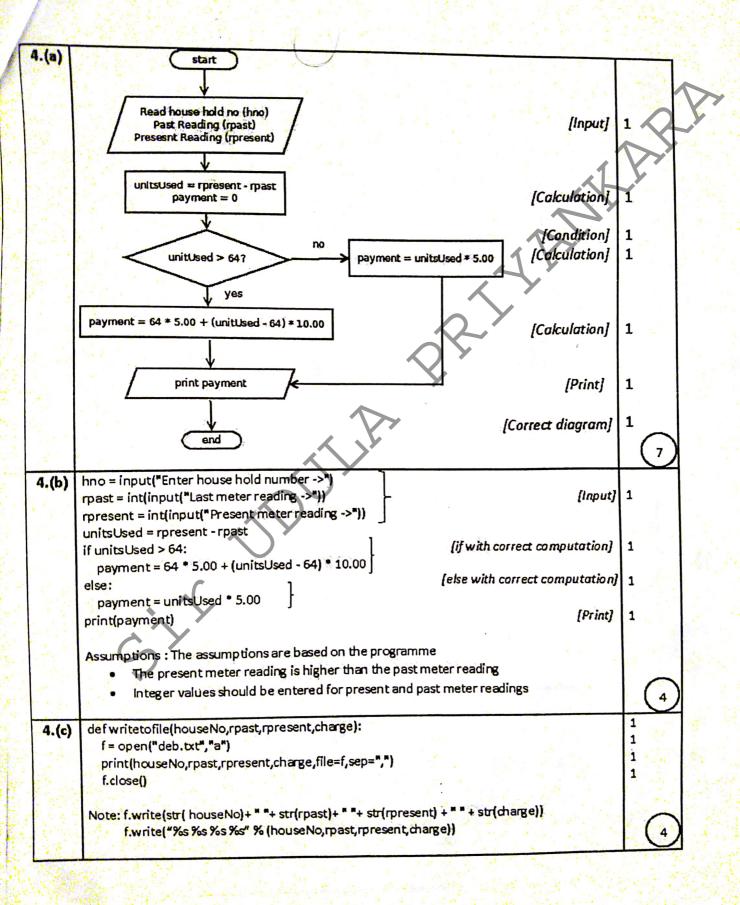
3.(a)	G2C or Government to Consumer Citizen trow	13
3.(b)	G2B or G2E, It is a service provided in online by the Government to Business or Employees.	1
3.(c)	Because it is a service provided by business to government. Therefore it is B2G,	4 1 5
3.(d)	Law: To prepare fine calculations mechanism according to the (criticality of the identified place). Identified place). Epidemic Control Division: (To develop formula to measure the criticality of the identified place related to dengue breeding).	3 2 5

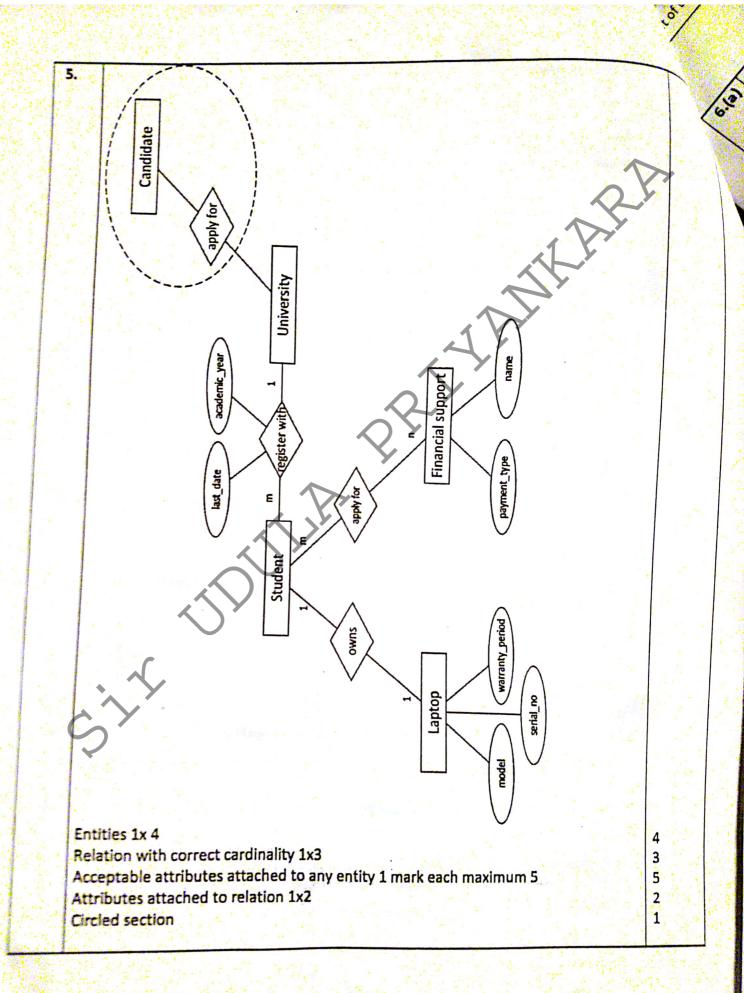
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