

Part	_	I
		_

(1)	2	(11)	4	(21)	1	(31)	4	(41)	4
(2)	1	(12)	3	(22)	3	(32)	3	(42)	3
(3)	5	(13)	4	(23)	3	(33)	2	(43)	5
(4)	4	(14)	1	(24)	4	(34)	1	(44)	3
(5)	5	(15)	2	(25)	3	(35)	1	(45)	4
(6)	4	(16)	2	(26)	3	(36)	3	(46)	5
(7)	2	(17)	1	(27)	4	(37)	5	(47)	3
(8)	1	(18)	1	(28)	2	(38)	4	(48)	4
(9)	5	(19)	2	(29)	4	(39)	4	(49)	5
(10)	4	(20)	5	(30)	3	(40)	1	(50)	5

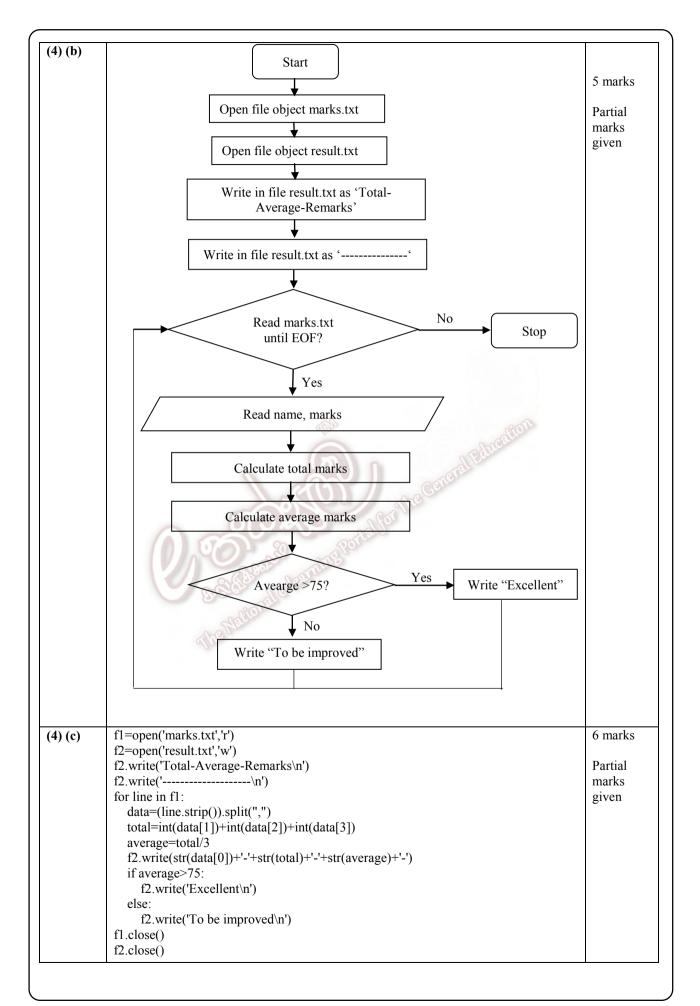
<u>Part – II A</u>	Structured Essay – All questions	

Question No.		Marks
(1) (a)	Shared memory , Message passing	2 marks [1+1]
(1) (b)(i)	Size of address space = 16 bits No. of address spaces / addresses = 2^{16} Max. usable virtual memory size = 2^{16} bytes = 64 KB	4 marks – steps needed
(1) (b)(ii)		2 marks or 0
(1)(b)(iii)	0101111001 Balance cleander	2 marks or 0
(2) (a)	5-0	3 marks [6 x 0.5]
(2)(a)		5 marks [0 x 0.5]
	<pre><u> Name:</u></pre>	
	Bill Gates	
	Telephone:	
	555 77 854	
	555 77 855	

(2) (b)		2 marks or 0
	External CSS saves a lot of work. / It can control the layout of	
	multiple web pages all at once.	
(2) (c)		$1 \ge 5 = 5 \text{ marks}$
	(i) element selector	
	(ii) id selector	
	(iii) element selector	
	(iv) class selector	
	(v) group selector	
(3) (a)	$16_{10} = 00010000_2$	3 marks [1, 1, 1]
	$+$ $-12_{10} = 11110100_2$ +	
	$\frac{-12_{10}-11110100_2}{00000100_2}$	
(3) (b)	- Entity integrity constraints	3 marks [1 x 3]
	Entity integrity constraints	on
	Domain integrity constraints	
	Referential integrity constraints	
(3)(c)	(i) "Expoline" sells electronic goods to customers via the Internet. This is	4 marks [2 + 2]
	a B2C service model of e-commerce.	
	(ii) No direct experience / testing about electronic goods.	
	Sometimes no guaranteed of delivery of exact goods.	
(4) (a)	Weres Ver	3 marks
	• Syntax / compile-time error	
	Run-time error	
	• Logical / semantic error	
(4) (b)		4 marks
(4) (b)	i=1	
	while i<=10:	Partial marks given
	print(i,end=' ')	
	i=i+2	
	: expected / no need ; / right indent needed for i = i +2	
(4) (c)	i=2	3 marks
	s=0	Partial marks given
	while i<=10:	
	s=s+i	
	i=i+2	
	print(s,end='')	

Question	Suggested Answers	Marks
<u>No.</u> 1)(a)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 marks [4 columns - 4 marks, Inputs in order]
	F - Output	
(1)(b)	$\bar{A}B\bar{C} + A\bar{B}\bar{C} + AB\bar{C}$	3 marks
(1)(c)	$ \begin{array}{l} \bar{A}B\bar{C} + A\bar{B}\bar{C} + AB\bar{C} \\ \bar{A}B\bar{C} + A\bar{C}(\bar{B} + B) &, \text{Distributive Law} \\ \bar{A}B\bar{C} + A\bar{C}.1 &, \text{Identity Law} \\ \bar{A}B\bar{C} + A\bar{C} \\ \bar{C}(A + \bar{A}B) &, A + \bar{A}B = A + B \\ \bar{C}(A + B) \end{array} $	4 marks Partial marks given
(1)(d)		4 marks
(2) (a)	 Internet banking system shall be able to allow customers to pay electricity /water/ telecommunication bills Internet banking system shall be able to allow customers to know account balance Internet banking system shall be able to allow customers to do money transactions 	6 marks [3 x 2]
(2) (b)	B2C service. Bank is a business that provides the internet banking services for its customers.	4 marks [2 x 2]
(2) (c)	 Money security Data privacy Reliability 	3 marks

(2) (d)		2 marks			
	Data mining agents could be used to find trends and patterns of customers' saving in	2 111d1 KS			
	an abundance of information from many different sources.				
	Monitoring / surveillance /predictive agents could be used to monitor customers'				
	saving status and habits.				
	[Or any appropriate answers]				
(3) (a)					
	Application layer	4 marks 0			
	Presentation layer	-			
	Session layer	Full answer			
	Transport layer	expected			
	Network layer				
	Data link layer				
	Physical layer				
(3) (b)	ТСР	6 marks [
	icr Education	6 marks [2 x 3]			
	A file to be transmitted in its <u>entirety without any errors</u> , therefore the error <u>detection</u> <u>and correction properties</u> of TCP are needed.				
	UDP 6522 For The				
	When watching a movie, <u>delay is critical</u> and therefore there isn't any time to seek the retransmission of any errors.				
	TCP Biologenal c-lean				
	Web pages need to be delivered <i>without error</i> so that all content is properly formatted and presented. Therefore the <i>error detection and correction properties</i> of TCP are needed.				
(3) (c)		3 marks o			
	There is a problem with DNS.	0			
(3) (d)	192.133.219.1	2 marks o			
(4) (a)	1GL				
	Machine code is used to write programs	4 marks [4 x 1]			
	No program translator is needed to execute programs				
	2GL				
	Assembly code is used to write programs				
	Program translator (Assembler) is needed to execute programs				



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