

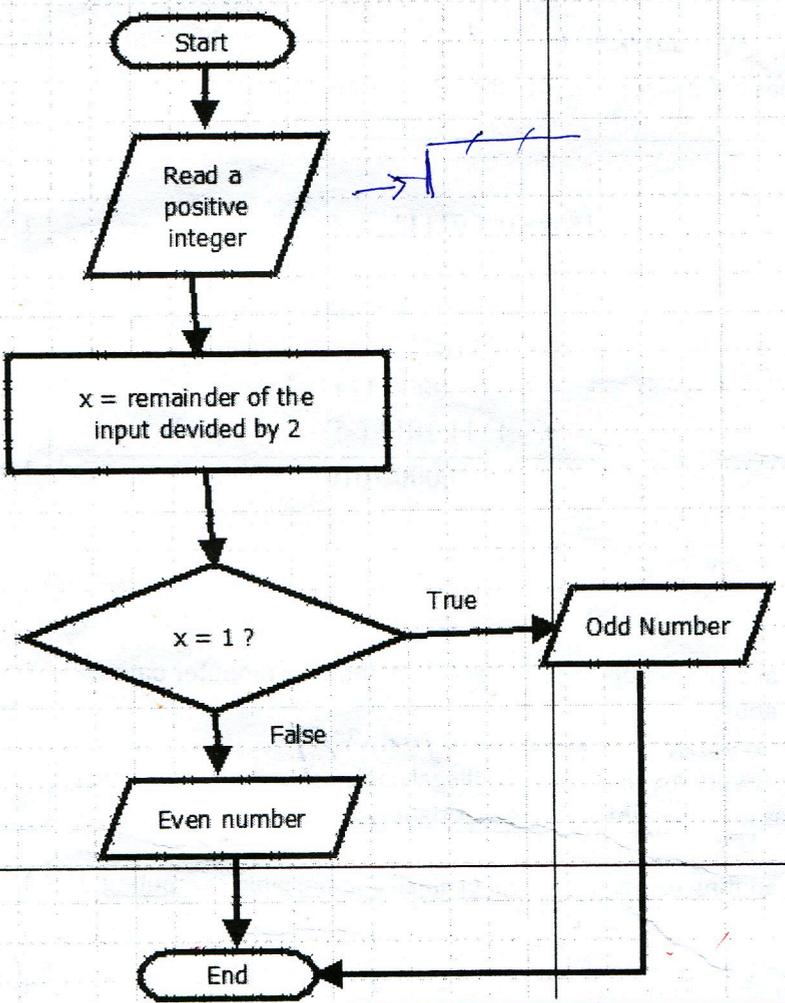
GCE AL Examination, August 2012 (AL/2012/20/E-II) – Part A

(Model Answers)

Q. No	Section	Model Answer	Marks Break-down	Total Marks
1	(a)	Multiprogramming Time sharing	2 2	4
	(b) i	Round trip delay time (RTD)/(RTT) - <i>Does not Explain or does not</i>		1
	(b) ii	131.111.8.46		1
	(b) iii	Class B		1
	(b) iv	0%		1
	(C)	Running Swapped out and blocked	1 1	2
2	(a)	A system is a group of <u>interrelated, interacting</u> resources forming a <u>common goal</u> . - <i>specific task, call (only for this year)</i> Or A <u>purposeful collection of inter related components working together to achieve common objective</u>		2
	(b)	Resource Interrelated Interacting (All three with at least 2 resources) Common goal - <i>communication/call</i>	1 1	2
	(c)	Open Justification Interacts with the outside world	1 1	2
	(d) i	Functional Discussion <i>Discribe.</i> <i>It is a service</i>	1 1	2

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Q. No	Section	Model Answer	Marks Break-down	Total Marks
	(d) ii	Non functional Discussion <i>Limitation or cost</i>	1 1	2
3	(a) i	If the remainder of the division of the number by 2 is 1, then the number is odd, otherwise even		1
	(a) ii	 <pre> graph TD Start([Start]) --> Read[/Read a positive integer/] Read --> Process[x = remainder of the input divided by 2] Process --> Decision{x = 1?} Decision -- True --> Output1[/Odd Number/] Decision -- False --> Output2[/Even number/] Output1 --> End([End]) Output2 --> End </pre> <p><i>1 mark for process & decision in box only for this year.</i></p>	1	2
		If the above method is acceptable and the flowchart implements it give 2 marks.		

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Q. No	Section	Model Answer	Marks Break-down	Total Marks
	(a) iii	<p>If the pseudo code represents the flowchart, give 2 marks.</p> <p>Start/Begin Read a positive integer Divide the number by 2 and get the remainder If the remainder equals 1 Then number is odd Else number is even \rightarrow Display 'odd' Stop/End \rightarrow Display Even</p> <p><i>with or without end if.</i></p> <p>Note: it does not matter whether the flowchart is correct.</p>		2
	(b)	$ \begin{array}{r} 15 \Rightarrow 00001111 \\ 5 \Rightarrow 00000101 \\ -5 \Rightarrow 11111010 + 00000001 \\ \Rightarrow 11111011 \\ 0000 1111 (15) \\ + 1111 1011 (-5) \\ \hline 0000 1010 \end{array} $ <p>Ignore the carry</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	5
4	(a)	<p>Privacy means <u>protection of personal</u> information in computer data bank from <u>abuse</u>.</p> <p><i>no any meaning of anti illegal copy.</i></p> <p>Piracy of software means making of <u>illegal copies</u> of software on which the user has no copyright or any other right.</p>	<p>1</p> <p>1</p>	2
	(b)	<p>Mobile computing refers to the <u>use of small and portable computing devices</u> in</p> <p><u>wireless enabled networks</u></p> <p>that provide <u>wireless connections</u> to a central main server.</p>	<p>1</p> <p>1</p> <p>1</p>	3

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(Model Answers)

Q. No	Section	Model Answer	Marks Break-down	Total Marks
	(c) i	Video conferencing		2
	(c) ii	Network. <i>devices</i> Any Audio/Video devices Computer/Servers	1 1 1	3