

## Sri Lanka Institute of Information Technology

## **Bachelor of Science in Information Technology**

Mid Term Examination Year 1, Semester 1, 2013 Wednesday, 20<sup>th</sup> March 2013

## Fundamentals of Information Technology (N100)

Duration: 1 Hour

Time: 1.00 p.m. - 2.00 p.m.

## Instructions to Candidates

- This paper contains 3 Questions on Four Pages.
- Answer ALL questions on the Question Paper itself.
- Point value of each question is given.

Answer ALL questions on the question paper	[30 marks]
Question 01	
a) State FOUR characteristics of the Von Neumann architecture?	[4 marks]
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b) Draw the <b>block diagram</b> of a computer and <b>state</b> its main components.	[3 marks]
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c) State the difference between LAN and WAN.	[2 marks]	
d) List the main categories of input devices and give an example for each.	[3 marks]	
Question 02		
4.00		
a) What is the need for an <b>Operating System</b> ?	[3 marks]	
b) List <b>ONE</b> responsibility each for the following IT roles,		
a. Programmer		
b. Systems Analyst	[2 marks]	
c. Systems Engineer	[3 marks]	

packages?	[2 marks]
d) Name the <b>FOUR</b> methods of file organization?	[2 marks]
Question 3	
Convert the following integers into given number bases.	
a) Conversion from Decimal to Octal, Hexadecimal	
• 53 <sub>10</sub>	[2 mark]

b) Cc	onversion from Bi	inary to Decimal, Hex	adecimal	
	• 1101 <sub>2</sub>			[2 mark]
4				
c) Co	onversion from O	ctal to Binary, Decim	al	
	• 657 <sub>8</sub>			[2 mark]
7-2/				
d) Co	onversion from H	exadecimal to Binary,	Decimal	
	• 8BC <sub>16</sub>			[2 mark]