T	No:		
	110.		



Sri Lanka Institute of Information Technology

B.Sc. Degree in Information Technology

Mid Examination Year 1, Semester 1 (2015) June Intake

Fundamentals of Information Technology (N100)

Duration: 1 Hour

Instruction to Candidates:

- ♦ This is a closed book examination.
- ◆ This paper contains 3 questions on 7 pages without the cover page.
- ♦ Answer all questions on the space provided.
- ◆ Read all questions before answering.
- ♦ The total marks obtainable for this examination is 30.
- ◆ Use of Calculators are **NOT** permitted.

IT	No:					
----	-----	--	--	--	--	--

Question 1	(12 marks)
a) What are the components of a Computer System?	(1marks)
b) Explain four characteristics of a computer system.	(4marks)
c) Explain Von Neumann Bottleneck. Name two solutions to for Von Neuman	nn Bottleneck. (3marks)

,		
d)	Compare Primary storage and Secondary storage. Provide one example for each	
4)	compare 1 runary storage and secondary storage. I to ride one example for each	(4
		(-1

	IT No:	
Question 2		(8 marks)
a) Briefly explain the use of System Software in	a computer system.	(2marks)
b) Briefly explain the following.Dump		
 UNICODE Central Processing Unit 		(3marks)
	•	

c) Compare and contrast Off-the-shelf packages and In-house packages.	(3marks)

Question 3	(10 marks)
Convert the following numbers into given number bases	
 a) Conversion from Decimal to Binary • 1689₁₀ 	(2marks)

•

IT No:

 Conversion from Binary to Decimal 1001110011₂ 	(2mark
•	
Conversion from Decimal to Octal • 98245 ₁₀	(2marks)

.

•

\mathbf{I}	T No:
Conversion from Decimal to Hexadecimal • 57868 ₁₀	(2marks)
Conversion from Octal to Decimal • 7204 ₈	(2marks)

End of the Question Paper