

SOUTH EASTERN UNIVERSITY OF SRI LANKA

**THIRD EXAMINATION IN BACHELOR OF BUSINESS ADMINISTRATION /
BACHELOR OF COMMERCE – 2008 / 2009**

SEMESTER – I, JUNE - 2010

MIS 3103 – VISUAL PROGRAMMING

Answer all questions.

Time 03: Hours

01.

i. What do you understand by the term Class? Give an example with reference to Visual Basic 2008.

(04 Marks)

ii. What is an Object? Explain with example.

(04 Marks)

iii. Write notes on the following

- a. Inheritance
- b. Polymorphism
- c. Encapsulation

(09 Marks)

iv. What are the two types of errors can occur when developing an application? Briefly explain them with examples.

(07 Marks)

v. What do you mean by

- a. Step Into
- b. Step Over
- c. Step Out

(06 Marks)

(Total 30 Marks)

02. Imagine that you are developing a simple Text Editor program using the controls such as RichTextBox, MenuStrip, and ToolStrip, etc available in MS Visual Studio 2008. You are also using Dialog boxes such as Print, Save etc. List out five (05) dialog boxes available in Visual Basic 2008 for use and mention what properties will you basically use when their ShowDialog method returns OK value?

(Total 20 Marks)

03.

- i. A car rental company has three types of cars; Nissan Sunny, Toyota Alien, and Honda Civic. The rental scheme is as follows.

Type	Nissan Sunny	Toyota Alien	Honda Civic
Fixed Rent per day	1,500/-	2,000/-	2,500/-
Rate per KM	20/-	30/-	40/-
Free Allowance per day	80/-	60/-	50/-

Interface is designed as shown below and you are required to write a VB program to input Vehicle Type, Number of Days Rented, and Kilometers run to calculate the Total Rent Payable and display on the screen (Use IF structure).

(10 Marks)

- ii. The government of Sri Lanka has decided to increase the salary of the public servants depending on their grades and service according to the following table.

Grade	Service years	Increments
M1	<= 05	05%
M1	<= 10	07%
M1	> 10	10%
M2	<= 05	06%
M2	> 05	09%

Write a VB program to input Basic Salary, Service, and Grade and calculate the Revised Salary and display on the screen. (Use IF and SELECT CASE structures).

(10 Marks)

(Total 20 Marks)

04.

- i. Explain the following with suitable examples
 - a. Functions and Procedures
 - b. Properties and Methods

(05 x 02 = 10 Marks)

- ii. In ADO.NET programming, briefly write notes on the role of Connection, Command, Table-Adapter, and Dataset.

(05 Marks)

(Total 15 Marks)

05.

- i. With reference to Windows Application Development, list out the steps in Data Cycle.

(05 Marks)

- ii. Briefly explain the use of TRY..CATCH..END TRY statement with an example.

(05 Marks)

- iii. Why do we use Arrays in programming? What types of arrays are available?

(05 Marks)

(Total 15 Marks)