## B.Sc. (Part—III) Semester—VI Examination COMPUTER SCIENCE (New)

(6S: Advanced Java and VB.Net)

Tin	ne : Tl	hree l	Hour	s]		[Maximum Marks : 80
	Note:—(1) All questions are compulsory					
		۸.۱	(2)	Question No. 1 carries 8 marks an	nd all o	other questions carry 12 marks each.
			(3)	Assume suitable data wherever nec		
			(4)	Draw neat sketches and diagrams	wherev	ver required.
1.	(A)	Fill		e blanks :		1,5
		(i)		are components that allow to in	teract	with application in various ways.
		(ii)				and that generates an event when it is
			pres	ssed.		
		(iii)		are used to display graphics from	n bitm	ap, icon, JPEG etc. file type.
		(iv)	The	control lets you display a	list of	Fradio buttons. 2
	(B)	Sele	ect co	orrect alternatives:		
		(i)		are used to select continuous value	s betwe	een a specified minimum and maximum.
			(a)	Scroll bars	(b)	List None
			(c)	Text field	(d)	None
		(ii)	The	ability of a language to support mu	ltithre	ads is referred to as:
			(a)	Multithreaded program	(b)	•
			(c)	Exception	(d)	None
		(iii)		GUI stands for :		
				Uses buttons, menus and icons		Should be easy for a user to manipulate
		<i>(</i> ; )	(c)	Both (a) and (b)	(d)	Graphical User Interface
		(iv)				source for retrieving and saving data.
			` '	Data controller	. ,	Data command
	(0)	A	` /	Data adapter	(d)	None 2
	(C)			in one sentence each:		
		(i)		at is thread? at is exceptions?		
		(ii) (iii)		at is breakpoint?		
		(iv)		at is applet?		4
2.	(A)	` /	A P	the life cycle of a thread.		46
۷.	(A) (B)	7.		Nested try statements with suitable e	xamnl <i>e</i>	e. 6
		ълр	iuiii l	Acsted by statements with suitable c	<i>r</i> umpi	0

3.	(A)	How to create multiple threads? Explain with example.	6
	(B)	Explain various types of exception.	6
4.	(A)	Explain following methods:	
		(i) get DocumentBase()	
		(ii) get CodeBase()	6
	(B)	How to display using applet viewer? Explain the process.	6
		OR OR	
5.	(A)	Write an applet program to draw multiple lines.	6
	(B)	Explain the applet life cycle in detail.	6
6.	(A)	List the different AWT controls and explain how to add and remove controls.	6
	(B)	Explain event delegation model in detail.	6
		OR ×	
7.	(A)	List the Event Listener Interfaces with description.	6
	(B)	Explain checkboxes and label AWT control with example.	6
8.	(A)	Explain the following functions with suitable example:	
		(i) MsgBox	
		(ii) InputBox.	6
	(B)	How to Access Text in TextBox ? Explain the steps of adding scroll bars and aligning	
		in TextBoxes.	6
0	(4)	₽ OR	
9.	(A)	Explain:	
		(i) Labels	
	(P)	(ii) Link Labels.	6
4.0	(B)	What is event? Explain in detail all mouse events.	6
10.	-	Write the steps of creating objects of the class. Explain with suitable example.	6
	(B)	Explain unstructured exception handling with suitable example.	6
11	(4)	OR	
11.		Explain the steps of creating methods of a class with suitable example.	6
	(B)	What do you mean by Structured Exception Handling? Explain with suitable examp	oie. 6
12.	<b>(\( \)</b>	Explain the steps of binding data to control.	6
12.	(B)	Explain the role of the following:	U
	(D)	(i) Data adaptors	
		(ii) Datasets	6
		OR  Explain the working with ADO NET	U
13.	(A)	Explain the working with ADO.NET.	6
1).	(B)	Explain the steps of accessing data with server explorer.	6
	(ப)	Emplain and steps of accessing dam with server emploier.	U

#### **B.Sc. Part—III Semester—VI Examination**

### **6S: COMPUTER SCIENCE (New)**

(Advanced Java and VB.Net)

Time:	Three	Hours]	[Maximum Marks: 8	0
N.B. :-	- (1)	All questions are compulsory.		
٨	(2)	Question No. 1 carries 8 marks and all	other questions carry 12 marks each.	
	P	Assume suitable data wherever necessar		
	(4)	Draw neat sketches and diagrams when	ever required.	
1. (A)		in the blanks:		
` '		automatically positions componen	nts within a container in Java.	
		A is a control that is used to turn		
		To specify the default button for a form be name of the button.		e
	(iv)	To create a Random object by declaring	g it in a statement.	2
(B)	Sele	ct the correct alternatives from the give	n options :	
	(i)	The class implements a single licontrol.	ne text-entry area usually called an ed	it
		(a) Scroll bars	(b) List	
		(c) Text field	(d) Check box	
	(ii)	To obtain the string currently contained	d in the Text field, method is called	:
		(a) SetText()	(b) getText()	
		(c) getselectedText()	(d) getEchoChar()	
	(iii)	The enable us to pass data betw	een a program and a class.	
		(a) Functions	(b) Properties	
		(c) Procedures	(d) Variables	
	(iv)	The default property for a text box cor	ntrol is:	
		(a) Text	(b) Enable	
		(c) MultiLine	(d) Password	2
(C)	Ans	wer in one sentence each :		
	(i)	What is edit control ?	413	
	(ii)	What is light weight threads?	DK .	
	(iii)	What is VB.Net?		
	(iv)	What is Data Set ?	4	4

2.	(A)	How do we set priorities for threads? Explain.	6
	(B)	What is multithreading program ? Explain how to create the thread.	6
		OR	
3.	(A)	Explain stopping and blocking a thread with suitable example.	6
	(B)	Explain throw and throws with suitable example.	6
4.	(A)	Explain the HTML APPLET tag with its attributes.	6
	(B)	Write a program to draw Polygon.	6
	4	A <sup>3</sup> OR	
5.	(A)	Explain:	
		(i) drawRect()	
		(ii) drawLine()	
		(iii) fillOval()	6
	(B)	How to pass parameters to applets ? Explain in detail.	6
6.	(A)	List the different types of controls supported by AWT. Explain.	6
	(B)	Explain Adapter Classes with suitable example.	6
		OR	
7.	(A)	What is event? Explain sources of events with example.	6
	(B)	Explain List and Labels AWT controls with example.	6
8.	(A)	Explain the following controls:	
		(i) Buttons	
		(ii) CheckBoxes	6
	(B)	Explain the Multiple Document Interface (MDI) Applications with example.	6
		OR	
9.	(A)	What is event ? Explain all mouse events in detail.	6
		How to work with multiple forms? Explain with suitable example.	6
10.		What is Class? Explain class statement with its parameters and suitable example.	6
	(B)	How to create breakpoint? Explain with suitable example.	6
		OR	
11.		Explain the steps of creating methods of a class with suitable example.	6
	(B)	Explain the following:	
		(i) Watch	_
		(ii) Quick Watch.	6
12.		Write and explain the steps of accessing data with server explorer.	6
	(B)	Explain the process of simple binding to controls.	6
1.0		What is Data Grid Control ? Explain in detail.	_
13.			6
	(B)	Explain the following:	
		(i) Populating a data set	_
		(ii) Selecting data provider.	6

# B.Sc. Part—III Semester—VI Examination COMPUTER SCIENCE (Advance Java & VB.Net)

Time	: 7	Three	Hours]		[Maximum Marks: 80
Note	:_	-(1)	All questions are compulsory.		
	4	(2)	Question No. 1 carries 8 marks and all	oth	er questions carry 12 marks each.
		(3)	Assume suitable data wherever necessar		
		(4)	Draw neat sketches and diagrams where	ever	necessary.
1. (	(A)	Fill	in the blanks:		
		(i)	A user defined exception class need to	be o	extended from
		(ii)	Applets does not have method.		
		(iii)	The keyword is used to instantia	te a	n object.
		(iv)	is a bridge between a Data Set a data.	nd ]	Data Source for retrieving and saving 2
(	(B)	Cho	ose correct option and rewrite answer:		
		(i)	The default event of TextBox control is	s :	
			(a) Click event	(b)	Load event
			(c) TextChanged event	(d)	MouseDown event
		(ii)	is used to retrieve the data resid	ing	in a data store or database.
			(a) Data Adapter	(b)	Data Provider
			(c) Data Source	(d)	Data Set
		(iii)	Block is executed only when exc	epti	on occurs in the program.
			(a) Throw	(b)	Finally
			(c) Try	(d)	Catch
		(iv)	Which package provides many event chandling ?		113
		H	(a) java.awt.Graphics	, ,	java.awt
			(c) java.awt.applet	(d)	java.awt.event 2

	(C)	Answer in <b>one</b> sentence each :	
		(i) What is thread ?	
		(ii) What is the tool used to execute an applet ?	
		(iii) What is constructor ?	
		(iv) What is delegate?	4
2.	(A)	What is exception ? State and explain the need to handle exception.	6
	(B)	Write procedure to create your own exception.	6
		OR	
3.	(A)	Explain predefined exception with suitable example.	6
	(B)	What is thread? Explain thread class with suitable example.	6
4.	(A)	Explain life cycle of an applet.	6
	(B)	What is applet context ? Give the difference between Java Application Applet.	and
		OR	
5.	(A)	What is Graphics Class ? Explain.	6
	(B)	How parameters can be passed to an applet ? Explain.	6
6.	(A)	Explain Java AWT Checkboxes with example.	6
	(B)	Explain Event Listener interface.	6
		OR	
7.	(A)	Explain Delegation model.	6
	(B)	Explain Java AWT Hierarchy.	6
8.	(A)	Explain following functions with syntax and example:	
		(i) MsgBox()	
		(ii) InputBox()	6
	(B)	Explain ListBox with any three properties and any three methods with example.	6
		OR	
9.	(A)	Explain Rich Text Box control with any three properties and any three methods.	6
	(B)	Explain the following controls with any two properties and any two methods:	
		(a) Combo Box	
		(b) Check Box	6

10.	(A) Define class and object. Explain with syntax class definition and creating objects	
		6
	(B) What are delegates ? Explain delegate with syntax and example.	6
	OR	
11.	(A) List down the steps to attach a class with a form.	6
	(B) Explain structured exception handling with suitable example.	6
12.	(A) What is ADO.Net? Explain ADO.Net object model.	6
	(B) Explain Data Adapter with its method.	6
	OR	
13.	(A) Explain Data Provider and its types use in ADO.Net.	6
	(B) Write a program to connect to database and execute query to display data fr	om
	table.	6



### **B.Sc. Part–III (Semester—VI) Examination COMPUTER SCIENCE**

### (Advanced Java and VB.NET)

Time: T	Three	Hours]	[Maximum Marks : 8	30
Note :	- (1)	All questions are compulsory.		
	(2)		and all other questions carry 12 marks each.	
	(3)	Assume suitable data wherever ne	cessary.	
	(4)	Draw neat sketches and diagrams	wherever required.	
1. (A)	Fill	in the blanks:		
	(i)	method can be used to	output a string in an applet.	
	(ii)	A suspended thread can be rece	eived by using the method.	
	(iii)	class is used to group c	controls together.	
	(iv)	MDI stands for	-2	2
(B)	Sele	ect correct alternative :	33	
	(i)	Which of these methods is a par	rt of AWT ?	
		(a) display()	(b) print()	
		(c) drawstring()	(d) transient()	
	(ii)	Which object can be construct window?	ted to show any number of choices in the visible	le
		(a) Labels	(b) Choice	
		(c) List	(d) Checkbox	
	(iii)	The default property for a text l	box control is	
		(a) Text	(b) Enable	
		(c) Multiline	(d) Password char	
	(iv)	The enables us to pass	s data between a program and a class in VB.NET.	
		(a) Functions	(b) Properties	
		(c) Procedures	(d) Variables	2

	(C)	Answer in <b>one</b> sentence each :	
		(i) What is event listener?	
		(ii) What is multithreaded program ?	
		(iii) What is exception handling ?	
		(iv) What is the use of Timer control ?	4
2.	(A)	Explain State transition diagram of thread.	6
	(B)	Explain Finally statement with suitable example.	6
		OR	
3.	(A)	Explain throw and throws with suitable example.	6
	(B)	What is multithreading program? Explain how to create thread with suitable example.	6
4.	(A)	What is Applet ? Explain Applet life cycle in detail.	6
	(B)	Write a program to draw Rectangles using Java Applet and explain its graphics method	ls.
			6
		OR	
5.	(A)	Explain the steps of Applet initialization and termination.	6
	(B)	Explain the following with its arguments:	
		(i) FillArc()	
		(ii) FillOval( )	
		(iii) RoundRect( )	
		(iv) drawLine( )	
		(v) drawOval( )	
		(vi) drawCircle().	6
6.	(A)	Explain event delegation model in detail.	6
	(B)	Explain the following AWT controls:	
		(i) Button	
		(ii) List.	6
		33° OR 33°	
7.	(A)	Explain adapter classes with example.	6
	(B)	List the different AWT controls and explain the steps of adding and removing controls	6

8.	(A)	Explain the following functions with arguments and suitable example:	
		(i) MsgBox	
		(ii) InputBox.	6
	(B)	Explain the following with respect to VB.NET:	
		(i) Radio Buttons	
		(ii) Check Boxes.	6
	3	OR	
9.	(A)	Explain the process/steps of creating Multiple Document Interface (MDI) applications example.	s with
	(B)	What is event? Explain all mouse event in detail.	6
10.	(A)	What is object ? Explain the steps of creating objects of the class with suitable example of the class with suitable example.	mple.
	(B)	How to create breakpoint ? Explain with suitable example.	6
		OR	
11.	(A)	Explain the following:	
		(i) Watch	
		(ii) Quick watch.	6
	(B)	Differentiate between structure and unstructured exception handling in VB.NET.	6
12.	(A)	Explain the steps of complex binding to controls.	6
	(B)	What is Data Grid control ? Explain in detail.	6
		OR	
13.	(A)	Write and explain the steps of accessing data with server explorer.	6
	(B)	Explain the following:	
		(i) Data access using data adapter	
		(ii) Selecting data provider.	6
		333	