#### **Examination: Summer Examination 2017**

	Examination: Summer Examination 2017	
Course: Course Code: Roll No:	Visual Programming CS-2201	
Name:		
	Allowed Ti Total Mari	me = 155 mins $cs = 48$
	PART B: Subjective Questions	
Note: Attem	pt any four questions	
Q2. (a) What	is the difference between interface and abstract class with example.	(4-marks)
Speak(), and Weig	te an abstract Animal class that has private members weight and name, an Move() and ToString(). Derive from Animal a Cat class and a Dog class that hight (both setter and getter for name and weight) and override the methods an all array, populate it with Dog and Cat, and then call each member's overriddent.	ave property Name propriately. Create
Q3. (a) Expla (b) What	in interfaces and how it is created in C# with suitable examples? is indexer? Explain how it is different from property in term of implementation	(6-marks) n. (6-marks)
	is synchronization? Define this process with some coded example. se delegates and events? Explain their interconnectivity with some coded exam	(6-marks) ple. (6-marks)
<b>)5.</b> (a) For th	ne following C# code:	(6-marks)
	This.inputText.Text = "20"; string inputString = inputText.text; string outputString = ""; int n = Convert.Toint(inputString); for(int checkNumber = 2; checkNumber<=n; checkNumber++)  {     bool isPrime += true;     foreach(int i=2; i< checkNumber; i++)     {	
	if(checkNumber %i == 0)	

isPrime = false;

outputString += checkNumber+ " ";

brake;

} if(isPrime)

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## outputLabel.Text = outputString.Text;

i Identify the errors (any) in the code.

- i. Identify the errors (any) if the edge.

  ii. Correct the each error by giving a solid reason.
- iii. Re-write the complete code after correction.
- iv. Give the output of the code after correction.
- (b) Declare and initialize a two dimentional array of order 9\*9 with random values having exactly 3 digits.

  Calculates the sum of all values and display the sum using a label.

  (6-marks)
- Q6. You are required to build 3 classes named Person, Student and Teacher. The Student and Teacher class should be derived from Person. Properties: Name, Age, Address, RollNo, ClassName, Session, Qualification and Specialization should be added in appropriate classes. Declare one instance for each class in Main function and set data accordingly. Display the information for each instance using a display method for Person class that should be overridden in each child class. (12-marks)

Good luck ...

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### 0077-BSCS-20

## GC University Lahore

## **Examination: Final Examination 2017**

Semester: Course: V

Visual Programming

Course Code: CS-2201

Allowed Time = 25 mins Total Marks = 12

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	PAR	ΓA: (	Objective Type Questions	Marks
1.	When doing an update, which method of Sq	Comm	and is best to use?	1
	a. ExecuteQuery	b.	ExecuteUpdate	
	c. ExecuteNonQuery	d.	•	
2.	and delines			1
	a. Class that encapsulates methods	b.	Means of passing arrays into methods	
	c. Substitute for an inherited method	d.		
3.	A property is called read only property if and	d only i	fit has	1
	a. Get method		Set method	
	c. Both get and set method	d.		
			This of get of set method	
4.	Which of the following is not the feature of	C#:		1
	a. Operator overloading is not allowed	b.	Multiple inheritance is not supported but interfaces are	supported.
	c. Enumeration members are scoped	d.	None of above	
5.	Static void Main(string[] args)			
	{			1
	int a = 4;			
	int b = 7;			
	b+=++a+b++;			
	Console.Write(b++ +","); Console.Write(++b);			
	}			
	a. 19,21		20,21	
	c. 19,22	d.	20,22	
6.	An "object" element can have	type/s o	of children	,
	a. Four	b.		I
	c. Two	d.	One	
7.	Which of the following is not the feature of (	7#9		
	a. Operator overloading is not allowed.	<i>Σπ</i> :		
	b. Multiple inheritance is not supported but	interfa	ices are supported	1
	c. Enumeration members are scoped.		are supported.	
	d. Global variables or functions are not allo	wed.		
8.	At the time an event is fired, the	meth	ods will be invoked	ħ
	a. Registered	_	Static	1
	c. Unregistered		Public	
9.	The are the Graphical User Into	erface (	GUI) components created for web based interactions.	1
/•	a. Web forms		Windows forms	4
	c. Applications forms	d.	None of the above	

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10.	Select the types of threads mentioned in the concept of multithreading:				
	a.	Foreground	b.	Background	
	c.	Only a	d.	Both a & b	
11.	Wh	ich of the following is the root of the .NET ty	pe h	ierarchy?	
	a.		-	System.Type	
	c.	System.Root		System.Parent	
12.	An	interface declaration cannot contain:			
	a.	Properties	b.	Indexers	
	c.	Data members	d.	Events	
13		the body of a method, C# uses the variable na	med <sub>.</sub>		to refer to the current object whose r
		call	b.	this	
	c.	•	d.	that	
1	4. C	# does not support array:			
		. Mutli-dimensional	b.	Dynamic	
	c	. Nested	d.	Subarray	

#### GC University Lahore

## **Examination: Final Examination 2017**

Semester:	IV	
Course:	Visual Programming	
Course Code:		
Roll No:		
Name:		

Allowed Time = 155 mins Total Marks = 48

### PART B: Subjective Questions

Note: Attempt any four questions

Q2. (a) What is the difference between interface and abstract class with example.

(5-marks)

(b) Create an abstract Animal class that has private members weight and name, and abstract method Speak(), Move() and ToString(). Derive from Animal a Cat class and a Dog class that have property Name and Weight (both setter and getter for name and weight) and override the methods appropriately. Create and Animal array, populate it with Dog and Cat, and then call each member's overridden virtual methods.

(7-marks)

- Q3. (a) Explain interfaces and how it is created in C# with suitable examples?

  (b) What is indexer? Explain how it is different forms to be suitable examples?
  - (b) What is indexer? Explain how it is different from property in term of implementation. (6-marks)
- Q4. (a) What is synchronization? Define this process with some coded example.
  (b) Explain SQL, DDL, DML briefly.
  (4-marks)
  - (c) Explain Value vs Reference parameters?

(2-marks)

Q5. (a) For the following C# code:

(6-marks)

```
This.inputText.Text = "20";
string inputString = inputText.text;
string outputString = "";
int n = Convert.Toint(inputString);
for(int checkNumber = 2; checkNumber<=n; checkNumber++)
{
    bool isPrime += true;
    foreach(int i=2; i< checkNumber; i++)
    {
        if(checkNumber %i == 0)
        {
            isPrime = false;
            brake;
        }
    }
    if(isPrime)
```

```
outputString += checkNumber+ "";
}
outputLabel.Text = outputString.Text;
}
```

- i. Identify the errors (any) in the code.
- ii. Correct the each error by giving a solid reason.
- iii. Re-write the complete code after correction.
- iv. Give the output of the code after correction.
- (b) Declare and initialize a two dimentional array of order 9\*9 with random values having exactly 3 digits. Calculates the sum of all values and display the sum using a label. (6-marks)
- Q6. Define a complete query application for the <u>Publication</u> database. Provide the following predefined queries: (/2-marks)
  - a) Select all authors from the Authors table.
  - b) Select all journals from the <u>Journals</u> table.
  - e) Select a specific author and list all publications for that author. Include the paper title, year and supporting authors.
  - d) Select a specific journal and list all papers published by different authors in that journal. Include the paper title, author name, year and journal volume.
  - e) Provide a query that insert new record of author and journal in tables

Good luck ...

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d. All programming languages.

a. get

c.access

Which of the following is not the method of DataAdapter?

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b. set

dalh

0077-BSCS-20

# GC University Lahore

	Examination: Final 2014	
emest course	er: 1V	
ourse	Code: CS-2201	
toll No vame:		
	Allowed Time = 5	130 mins
	PART B: Subjective Questions	
vote:	Attempt any four questions	
Q2.		(4 marks) defined queries ooBox. Provide (10 marks)
	a) Select all authors from the <u>Authors</u> table. b) Select all publishers from the <u>Publishers</u> table. c) Select a specific author and list all books for that author. Include the title, year and ISB d) Select a specific publisher and list all books published by that publisher. Include the ISBN number.	N number. e title, year an
	e) Provide a query that insert new record of author and publishers in tables	
Q3.	Write a short answer of following questions;  a) What is CLR and MSIL? Why they are used?  b) What is the difference between class and interface?  c) What is inheritance and abstract class? Explain your answer with some example. (6 m	(4 marks) (4 marks) arks)
Q4.(a (b) De	Define delegates, Events and their interconnectivity with some Coded Example.  efine Endpoint and Address, Binding and Contract in WCF?  (4 ma	(10 marks) rks)
<b>Q5.</b> E:	xplain these concepts with the help of any example;  a) What are Threads?	
	b) How Threads are use in C# code? c) What are the functions for threads manipulation? Explain your answer with some exa	(3 marks) (3 marks) ample.
Q6.W Y	Vrite a program using arrays that takes input of 5 subjects for three students from user. Your program should produce grade for each student on the basis of his average.	(8 marks) (14 Marks)
*Note	e: Grade range $(90-100 = A+, 80-90 = A, 70-80 = B, 60-70 = C, 50-60 = D and <50 = F$	
	Huck	