

40 Question Test

P Number:

Tutor:

Course:

You are required to answer the following questions.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Duration 60mins

Warnings about Cheating in Tests

A phase test is a formal assessment and as such is subject to University regulations.

Any attempt to cheat will result in instant expulsion from the test and disciplinary measures, possibly resulting in a zero grade for the entire module.

Prior to starting the test, you are requested to go to the bathroom. You will not get a chance during the test unless you have special medical requirements. (Please inform your tutor if this is the case – you may need to provide evidence.)

Prior to starting the test, you may not enter the room. Wait outside until your tutor allows you in.

Once in the test room there must be no communication with other students, if you have anything to say, raise your hand and talk to your tutor.

Coats and bags should be left near the door inside the test room.

Mobile phones, calculators and USB memory devices should be turned off and in your bag. If you are found with any of these devices you will be expelled from the test.

You are not allowed any items of paper other than those provided on the day.

Do not login to the computer.

There will be no communication with other students during the test.

At the end of the test you should sit silently and wait.

The phase test will be marked anonymously in accordance with University policy.

1. What is programming?

2. What is a function?

3. What is a class file?

4. If you created a class to represent an address what might its properties be?

5. What is an object?

6. What is instantiation?

7. What are methods and properties?

8. What are the following made from, methods, properties, constructors, event handlers?

9. Along with a suitable example explain what is sequence?

10. Along with a suitable example explain what is selection?

11. Along with a suitable example explain what is repetition?

12. Along with a suitable example explain what is proceduralisation?

13. What do parameters do?

14. Along with a suitable example explain what is a function's return value?

15. Write a public function stub for the method Delete which accepts a single parameter representing the primary key of the record to delete (AddressNo). The function should have a Boolean return data type. The function should include a comment indicating where the code would go.
16. Write a section of code that creates an instance of an object called Addresses based on the class clsAddressCollection.

17. What is the difference between a getter and a setter?

18. Along with a suitable example explain what is a variable?

19. What does declaring a variable do?

20. Write suitable control IDs for the following.

- A text box for a first name
- A label to store errors
- A button to save data
- A list box displaying students

21. Does the computer care what names we give to our objects, controls and variables? Explain why.

22. What is the = sign called and what does it do?

23. Declare a variable to store a person's first name initialised with the string "John".

24. Declare a variable to store a person's age initialised with the age 23.

25. Declare a variable to store a telephone number.

26. Declare a variable to store the price of a kettle

27. Write a section of code that assigns the value 20 to a variable called ClassSize.

28. Write a section of code that assigns the name "Fred Bloggs" to a variable called StudentName:

29. A form has a text box called txtUserName. Write a section of code that copies the text property of the control to an appropriate variable.

30. What is wrong with the following if statements?

a.

```
if Age < 18;  
{  
    lblMessage.Text = "You are too young"  
}
```

b.

```
if (Age > 30)  
    lblMessage.Text = "You are too old";
```

31. Write an "if statement" that reads data into a variable called UserName from an appropriate text box. The message "You are Fred" should be displayed in an appropriate label.

32. What is wrong with the following validation?

```
string Error = "";  
try  
{  
    Int32 AgeTemp = Age;  
}  
catch  
{  
    Error = "Age is not valid";  
}  
StoreAge(Age);
```

33. What is wrong with the following loops?

```
Int32 Index = 0;
while (Index < 10)
{
    Index--;
}
```

```
Int32 Index = 0;
while (Index < 10)
{
}
```

34. Write a While Loop that loops counting backwards from 10 to 0 adding the results to a list box called lstItems.

35. What would be suitable return data types for the following functions?

`StudentExists();`

`GetFirstName();`

`GetGroupNumbers();`

`GetDateofFirstTransaction();`

36. The following function has been created...

```
void DeleteMembers()  
{ }
```

What is wrong with the following line of code?...

`Delete Member();`

37. Along with an example what do parameters do?

38. The following function needs a suitable parameter. Modify the definition to include something appropriate.

```
void PrintDayReport()  
{ }
```

39. Write a function declaration that tells us the number of days in the current year including a parameter allowing us to specify the year.

40. A function accepts a parameter to specify the year and returns the number of days for that year. Write a section of code that assigns it to an appropriate variable.