



# QUAID-I-AZAM UNIVERSITY ISLAMABAD

B.A/B.Sc. Annual Examinations--2013  
(PART-I)

Roll No: \_\_\_\_\_

SUBJECT: Computer Studies

PAPER: A (Theory)

Time Allowed: 3 Hours

July 03, 2013

Max Marks: 70

**Note:** Attempt total TWELVE questions selecting SIX from Part-I and SIX from Part-II.  
Q.No.1 of Part -I and Q.NO. 9 of Part -II are compulsory.

## Part -I (Introduction to IT)

**Q. No.1** Write the correct option on answer sheet with question number and option letter only. Do not write the whole question. Cutting, overwriting and re-writing for this question is not allowed. (10)

- i. The most common type of operating system for PC is:  
(a) DOS (b) Microsoft Windows (c) Unix (d) Linux
- (a) The computer can move data and instruction between storage and memory as needed in a process Volatility (b) Pipelining (c) Swapping (d) Exchanging
- ii. Software enables professional designers to design and produce sophisticated documents that contain text, graphics and brilliant colors is:  
(a) Paint (b) Word Processing (c) Desktop publishing (d) Spread Sheets
- iii. When formatting a disk, the disk drive creates a set of magnetic concentric circles called \_\_\_\_\_ on each side of the disk.  
(a) Sector (b) Track (c) Cylinder (d) Cluster.
- iv. Smart phones allow you to:  
(a) Send and receive phone calls (b) Send and receive email messages  
(c) Surf the web (d) All of these.
- v. FAT stands for:  
(a) File Address Table (b) File Allocation Table  
(c) File Automatic Table (d) File Animation Table.
- vi. Companies that use networks can save time and money because networks allow users to share:  
(a) Hardware Devices (b) Software (c) Information (d) All of these.
- vii. A device used to connect similar network is:  
(a) Bridge (b) Gateway (c) Hub (d) Router.
- viii. Which of the following is a top-level domain?  
(a) HTTP (b) HTML (c) .com (d) URL
- ix. Pixel is short for:  
(a) Page Edit (b) Place Edit (c) Picture Enter (d) Picture Elements.

\*Do not Mark Options of Question No.1 & 9 on the Question paper. It will lead to offence (Cheating Case).

- Q.No.2** Explain Machine Cycle. Mention role of each register to complete one cycle? (5)
- Q.No.3** What is an application software? Define any five (05) forms of application software? (5)
- Q.No.4** What is transmission media? Explain the role of any three (03) transmission Medias? (5)
- Q.No.5** What are some facilities provided by Internet? (5)
- Q.No.6** Explain any five (05) characteristics of a computer. (5)
- Q.No.7** Explain the role of Computers in education. (5)
- Q.No.8** Differentiate between the printing technology used in impact and non-impact printers. Also give their different examples? (5)

**Part -II (Computer Programming)**

**Q. No.9 Write the correct option on answer sheet with question number and option letter only. Do not write the whole question. Cutting, overwriting and re-writing for this question is not allowed. (10)**

- i. Which one is not true about machine language?  
(a) Binary form (b) Directly understandable by the computer  
(c) Fast execution (d) Machine independent language.
- ii. In Visual Basic, a form is another word for a (n):  
(a) Object (b) Window (c) Property (d) Label
- iii. Executes one or more statements while the given condition is false.  
(a) While...wend (b) if... Then... Else (c) Do... While (d) Do...Until
- iv. How many modes of visual basic operations are there?  
(a) 3 (b) 7 (c) 1 (d) 12
- v. Which of the following is NOT a valid variable data type?  
(a) Integer (b) Real (c) Currency (d) Boolean
- vi. Group of consecutive memory locations are called:  
(a) Loops (b) Sub Procedure (c) Arrays (d) Library Functions.
- vii. What will be the result of following statement?  $5 \text{ MOD } 25 + 4/3 * 10 \text{ MOD } 30$   
(a) 15 (b) 18 (c) 5 (d) None of these.
- viii. A window that requires the user to take some action before the focus can move to other form?  
(a) Modal (b) Modeless (c) Module (d) File method.
- ix. Private, Sub and End Sub are:  
(a) Variable Names (b) String constant (c) Keywords (d) Properties
- x. Which language is not a true object-oriented programming language?  
(a) VB.NET (b) VB 6 (c) C++ (d) C#

**Q.No.10 Write a VB program to print the following output using loop (5)**

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

**Q.No.11 Write a program that inputs five numbers in an array and display them in actual and reverse order.(5)**

**Q.No.12 Write a function that counts the number of zeros, odd and even numbers. (5)**

**Q.No.13 Write down the major difference between bubble sort and selection sort. Explain with the help of visual basic code. (5)**

**Q.No.14 Write syntax and purpose of any five built in functions. (5)**

**Q.No.15 What is the output of following piece of code: (5)**

```
Private Sub Command1_Click ()
For I = 1 to 5
    For j = 1 to i
        Print i, j
    Next
Next
End Sub
```

**Q.No.16 Trace out the following piece of code. Show the value of variable in memory after each statement execution. Also identify the passing mechanism. (5)**

```
Private Function test(X As Integer, Y As Integer) As Integer
Dim a, b, c, m As Integer
```

a = a - 2\* b

b = 2 \* b

c = a + b

test = c

End Function.

```
Private Sub Command1_Click()
```

```
Dim num1,num2, fnc As Integer
```

```
Num1 = 7
```

```
Num2 = 12
```

```
Fnc = test(num1,num2)
```

```
MsgBox "Value after the function call is "&c
```

```
End Sub
```