



# UNIVERSITY OF THE PUNJAB

**B.A. / B.Sc. Part – I**  
**Annual Examination - 2018**

Roll No. ....

**Subject: Computer Studies-I**  
**PAPER: A (Introduction to IT and Computer Programming)**

**TIME ALLOWED: 3 hrs.**  
**MAX. MARKS: 70**

**NOTE: Question#1 in Part-I and Question#5 in Part-II are compulsory. Attempt any TWO of the remaining THREE questions in Part-I and Part-II.**

For objective type questions (Question#1 and Question#5), you do not need to write the question statements. You are only required to write the part number (e.g. 1, 2, 3, etc.) and your selected answer letter (e.g. A or B or C or D) against it. Cutting and/or overwriting should be avoided. You must provide answers to the questions in the sequence (from 1 to 15)

## **PART – I (Introduction to Information Technology) Max. Marks. 35**

**Q # 1 (Do all parts in this question)**

(15)

1. Which of the following memory type store instructions that help the computer startup?  
(A) Cache memory (B) Hard disk (C) RAM (D) ROM
2. Which of the following is not part of CPU?  
(A) ALU (B) Control Unit (C) Main Memory (D) Registers
3. In a computer, most of the processing takes place in \_\_\_\_\_.  
(A) Hard disk (B) RAM (C) Motherboard (D) CPU
4. Which of the following is the smallest unit of storage?  
(A) Kilobyte (B) Megabyte (C) Gigabyte (D) Terabyte
5. A \_\_\_\_\_ can perform both input and output functions  
(A) Trackball (B) Microphone (C) Touch Screen (D) Scanner
6. Which of the following is not an output device?  
(A) Scanner (B) Printer (D) Speaker (D) Plotter
7. Light pen and joystick are \_\_\_\_\_.  
(A) Algorithms (B) Input devices (C) Output devices (D) Portals
8. \_\_\_\_\_ printer is the cheapest in terms of price and operating cost.  
(A) Inkjet (B) Laser (C) Thermal (D) Dot matrix
9. \_\_\_\_\_ is the smallest element in an electronic display.  
(A) Byte (B) Bit (C) Pixel (D) Character
10. \_\_\_\_\_ consists of the programs that control or maintain the operations of the computer and its devices.  
(A) System software (C) Enterprise software  
(B) A graphical user interface (GUI) (D) Application software
11. Which of the following is not an operating system?  
(A) Windows (B) Unix (C) Andriod (D) Oracle
12. DSL stands for  
(A) Digital Subscriber Line (C) Dynamic Storage Link  
(B) Digital Storage Link (D) Digital Sum Loop
13. \_\_\_\_\_ is the process of transferring documents, graphics, and other objects from your computer to a server on the Internet.  
(A) Downloading (B) Uploading (C) Blogging (D) Social networking
14. The components of a domain name are separated by \_\_\_\_\_.  
(A) Commas (B) Periods (C) Colons (D) Semicolons
15. A \_\_\_\_\_ is an agreed-upon format for transmitting data between two devices.  
(A) Protology (B) Pprotoplasm (C) Prototype (D) Protocol

**Q# 2: What is computer bus? Explain different types of buses used in a computer.**

(10)

**Q# 3: Differentiate between the following:**

(2.5 each)

- a) Desktop computer and mobile computer
- b) Impact and Non-impact printers
- c) Static and dynamic web page
- d) Blog and Portal

**P.T.O.**

**Q# 4:**

- a) Briefly explain IP address and domain name with the help of examples. (5)
- b) What is cache memory? Discuss the use of cache memory in improving the performance of a computer system? (5)

**Part-II (Computer Programming)**

**Max Marks: 35**

**Q # 5 (Do all parts in this question)**

(15)

1. What is the value of an integer variable x after the statement  $x = 4 * (6 + 9 / 3)$  is executed  
(A) 10 (B) 18 (C) 27 (D) 36
2. Let A = 15, B = 20, then the expression  $(A > 15) \text{ OR NOT}(B = 20)$  evaluates to \_\_\_\_\_  
(A) True (B) False
3. What is the value of x after the following statements are executed?  
Dim x As Integer = 10  
x += 20  
(A) 10 (B) 20 (C) 30 (D) 40
4. \_\_\_\_\_ is a tool used in form window for grouping the option button.  
(A) Frame (B) Group (C) Label (D) Shape
5. Which of the following is not a valid name of a variable in VB?  
(A) intCount (B) \_year (C) Invalid (D) 2x
6. An event is a(n):  
(A) Activity performed by computer regularly (C) Block of code in a program  
(B) Function that executes automatically (D) None
7. The following methods remove an item from a list box:  
(A) Remove (B) RemoveAt (C) Delete (D) Both A and B
8. \_\_\_\_\_ keyword is used in a parameter declaration to specify that the argument is passed by value.  
(A) ByVal (B) Val (C) Value (D) AsValue
9. Which of the following properties determines the number of elements in an array?  
(A) Size (B) Length (C) Elements (D) NumberElements
10. \_\_\_\_\_ combines the features of the text box and list box.  
(A) Picture box (B) Check box (C) Combo box (D) Message box
11. If no item is selected in a list box, then SelectedIndex = \_\_\_\_\_  
(A) 0 (B) 1 (C) -1 (D) NULL
12. You assign an access key to a button through \_\_\_\_\_ property.  
(A) AccessKey (B) AccessButton (C) Mnemonic (D) Text
13. The following type of loop evaluates its test expression after each iteration.  
(A) Out-test (B) Pretest (C) Posttest (D) In-test
14. \_\_\_\_\_ is a command used to come out of the loop.  
(A) continue (B) break (C) out (D) exit
15. \_\_\_\_\_ method erases all items from a list box.  
(A) Erase (B) Clear (C) Items.Remove (D) Items.RemoveItem

**Q# 6:** Write a VB 6 program to design a simple calculator. The application has two TextBox controls, into which you enter numbers. There are buttons for addition, subtraction, multiplication and division. When you click one of these buttons, the application performs a math operation using the two numbers entered into the TextBox controls and displays the result in a label. (10)

**Q# 7:**

- a) Write VB 6 program that reverses the elements of an array of N elements. (7)

**Sample Run:**

INPUT

Array A: 2 8 5 15 12

OUTPUT

Array A: 12 15 5 8 2

- b) What is syntax error, logical error and run time error? (3)

**Q# 8:**

- a) Explain the difference Pretest and Posttest Do While Loops with the help of suitable example. (4)
- b) Write a program that keeps taking a number as an input as long as the sum of the entered numbers is less than 1000. (6)