This question paper contains **3** printed pages]

BF—362—2016

FACULTY OF COMPUTER STUDIES

B.Sc. (First Year) (First Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(CBCS Pattern)

COMPUTER SCIENCE

Paper I (BSCIT001)

(Problem Solving Using Computers)

(MCQ + Theory)

(Thursday, 1-12-2016) **Time : 10.00 a.m. to 12.00 noon**

Time—2 *Hours* *Maximum Marks*—40

N.B. :— (*i*) *All* questions are compulsory.

(*ii*) Draw neat and labelled diagram wherever necessary.

(*iii*) Assume suitable data wherever necessary.

MCQ

1 Solve all MCQ given below : 10

(*i*) ..... is called as subscripted variable.

(A) $x[2]$ (B) $1[x]$

(C) $[1]x$ (D) $[x]$

(*ii*) The number which is divisible by 1 and itself only is ..... number.

(A) odd (B) even

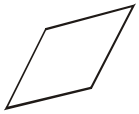
(C) prime (D) reverse

(*iii*) 720 is factorial of ..... .

(A) 3 (B) 6

(C) 5 (D) 15

P.T.O.

(*iv*)  symbol is used in flow chart for ..... .

(A) start (B) condition

(C) end (D) I/O

(*v*) Find the missing number in series 0, 1, 1, 2, 3, 5, 8, 13 34

(A) 15 (B) 16

(C) 21 (D) 29

(*vi*) Application is also called as ..... .

(A) program (B) software

(C) input (D) output

(*vii*) ..... is an input device.

(A) printer (B) CPU

(C) scanner (D) monitor

(*viii*) GCD stands for ..... common divisor.

(A) Great (B) Gold

(C) Garbage (D) Greatest

(*ix*) ..... representation of algorithm is a flow chart.

(A) numeric (B) pictorial

(C) textual (D) fragmental

(*x*) ..... is a collection of same data type element.

(A) Array (B) Loop

(C) Condition (D) Solve

Theory

2. (*a*) What is searching ? Explain linear search and binary search with suitable example. 10

Or

(*b*) Explain characteristics of computer. 8

(*c*) Write an algorithm for generating Fibonacci series. 5

3. (*a*) What is computer ? Draw and explain the block diagram of computer in detail. 10

Or

(*b*) Write an algorithm for reverse digits of an integer. 5

(*c*) Write an algorithm to prime factor. 5

4. (*a*) What is array ? Write an algorithm for finding maximum number from given 10 numbers from array. 10

Or

(*b*) Explain analysis of algorithm. 5

(*c*) Write an algorithm for factorial computations. 5