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AO—352—2018

FACULTY OF SCIENCE

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

MARCH/APRIL, 2018

(CGPA)

COMPTUER SCIENCE

Paper II

(Foundation of Computer Programming)

(MCQ+Theory)

(Saturday, 28-4-2018) **Time : 10.00 a.m. to 12.00 noon**

Time—2 *Hours* *Maximum Marks*—40

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

(*ii*) Figures to the right indicate full marks.

(MCQ)

1. Select *correct* alternative for the following : 10

(*i*) ..... symbol is used for looping statement.

(A)  (B) 

(C)  (D) 

(*ii*) The number which is divisible by two is called as ..... number.

(A) Even (B) Odd

(C) Armstrong (D) None of these

P.T.O.

(*iii*) ..... is correct form of subscripted variable.

(A) 1[X] (B) X[10]

(C) [10]X (D) [X]

(*iv*) ..... is also known as stepwise refinement.

(A) Sdesign (B) Topdown design

(C) Tdesign (D) None of these

(*v*) ..... is a looping statement.

(A) id (B) begin

(C) for (D) none of these

(*vi*) The missing number in sequence is .....

0, 1, 1, 2, 3, 5, 8, ..., 21, 34.

(A) 10 (B) 14

(C) 16 (D) 13

(*vii*) Factorial of 6 is .....

(A) 480 (B) 720

(C) 820 (D) 1000

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

(A) Printer (B) Monitor

(C) Mouse (D) All of these

(*ix*) Symbol is used as connector.

(A)  (B) 

(C)  (D) 

(*x*) ..... is collection of elements which are having same datatype.

(A) Pointer (B) Array

(C) Loop (D) None of these

(Theory)

2. (*a*) What do you mean by program verification ?

(*b*) Write an algorithm to calculate factorial of a number.

Or

(*c*) What is binary search technique ?

(*d*) Write an algorithm for reversing digits of a number.

3. (*a*) Explain various symbols in flow chart.

(*b*) Write an algorithm to find maximum elements from array.

Or

(*c*) Explain merge sort technique.

(*d*) What do you mean by analysis of algorithm ?

4. (*a*) Discuss various problem aspects in problem solving.

(*b*) Write an algorithm to find GCD of given numbers.

Or

(*c*) What is left and right justification of text.

(*d*) Write an algorithm for finding prime factors of integer.