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AO—339—2018

FACULTY OF COMPUTER STUDIES

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

MARCH/APRIL, 2018

COMPUTER SCIENCE

Paper I

(Problem Solving Using Computers)

(MCQ+Theory)

(Thursday, 26-4-2018) **Time : 10.00 a.m. to 12.00 noon**

Time—2 *Hours* *Maximum Marks*—10+30

N.B. :— (*i*) Attempt all questions.

(*ii*) Assume suitable data if necessary.

(MCQ)

1. Sovle all MCQ's given below : 10

(*i*) The largest division of ..... no. is itself.

(*a*) even (*b*) odd

(*c*) prime (*d*) whole

(*ii*) If $n/2$ leaves remainder "0" then n is .....

(*a*) odd (*b*) even

(*c*) prime (*d*) whole

(*iii*) 5040 is a factorial of .....

(*a*) 7 (*b*) 8

(*c*) 6 (*d*) 9

P.T.O.

(*iv*) Algorithm is a set of .....

(*a*) symbols (*b*) integers

(*c*) instructions (*d*) numbers

(*v*)  symbol is used in flowchart for .....

(*a*) I/O (*b*) loop

(*c*) start (*d*) decision

(*vi*) SRAM is ..... Random Access Memory.

(*a*) Static (*b*) Sort

(*c*) Sink (*d*) State

(*vii*) Scanner is ..... device.

(*a*) input (*b*) output

(*c*) CPU (*d*) ALU

(*viii*) ..... KB = 2 MD.

(*a*) 1024 (*b*) 2048

(*c*) 2000 (*d*) 1000

(*ix*) *n*! is calculated as .....

(*a*) *n*×o (*b*) 0×1×2 .....×*n*

(*c*) 1×2×3×.....×*n* (*d*) 0×2×3× ..... ×10

(*x*) Array is collection of ..... type.

(*a*) Different (*b*) Integral

(*c*) Float (*d*) Same

(Theory)

2. (*a*) Define computer. Explain the block diagram of a computer. 10

Or

(*b*) Explain Linear search with example. 5

(*c*) Write an algorithm for array counting. 5

3. (*a*) Define flowchart. Explain flow chart symbol with suitable example. 10

Or

(*b*) Write an algorithm for Fibonacci numbers (series). 5

(*c*) Write an algorithm for GCD. 5

4. (*a*) Write an algorithm for finding maximum and minimum element from array. 10

Or

(*b*) Write an algorithm for counting numbers. 5

(*c*) Explain binary search with suitable example. 5