

W-413-2018
FACULTY OF SCIENCE & TECHNOLOGY
WINTER 2018 EXAMINATION
B.Sc. I SEMESTER (CGPA)

Subject : COMPUTER SCIENCE- Foundation of computer programming – II
(Monday, 10.12.2018) Time : 10.00 a.m. to 12.00 noon.

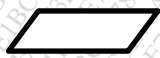

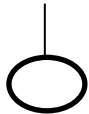
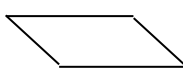
Time : Two Hours

Max. Marks : 40

- Note : i) Attempt all questions.
ii) Assume Suitable data if necessary.

PART – I - MCQ

Q. 1 Select correct answer of the following. 10

- 1) An algorithm consist of explicit & unambiguous
 - a) one step
 - b) two steps
 - c) finite steps
 - d) five steps
- 2) for algorithm are inherently in with the design implementation & analysis of algorithm.
 - a) Efficiency
 - b) verification
 - c) algorithm
 - d) implementation.
- 3) Pictorial representation of steps written to solve any problem is known as :
 - a) Algorithm
 - b) programm
 - c) flowchart
 - d) None of these
- 4) The symbol used for decision is
 - a) 
 - b) 
 - c) 
 - d) 
- 5) A is a problem solved in a finite number of steps.
 - a) algorithm
 - b) flowchart
 - c) design
 - d) problem
- 6) is a decision making statement.
 - a) for
 - b) while
 - c) do.... while
 - d) if else

- 7) The GCD of 36 and 54 is
- a) 18 b) 19 c) 20 d) 16
- 8) There are types of arrays.
- a) 2 b) 3 c) 4 d) 1
- 9) The smallest divisor of prime number is
- a) 1 b) 2 c) 3 d) 4
- 10) is a thing which does not change the value
- a) variable b) keyword
c) constant d) None of these

PART –II – THEORY

- Q. 2 a) Explain flowchart symbols? 05
 b) Write down algorithm development for summation of set of numbers. 05
- OR
- c) Explain efficiency of algorithm 05
 d) Explain algorithm for factorial computation. 05
- Q. 3 a) Explain algorithm development for GCD of two integers. 05
 b) How to convert algorithm to flowchart? Explain. 05
- OR
- c) Explain array and their memory representation. 05
 d) Explain algorithm steps for reversing digits of an integers. 05
- Q. 4 a) Explain algorithm development steps for binary search? 05
 b) Explain bubble sort? 05
- OR
- c) Explain algorithm for maximum and minimum element from array. 05
 d) Explain algorithm steps for left and right justification of text. 05

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