

This question paper contains 3 printed pages]

AO—352—2018

FACULTY OF SCIENCE

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

MARCH/APRIL, 2018

(CGPA)

COMPUTER 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

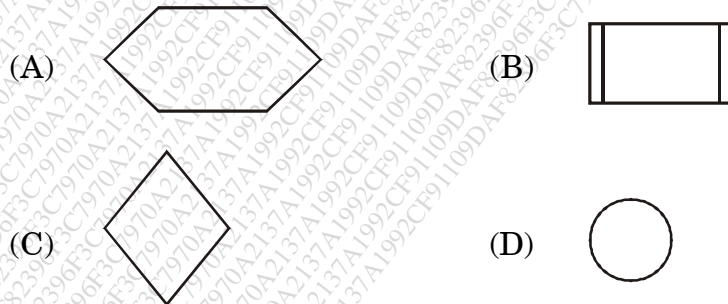
N.B. :- (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(MCQ)

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

(i) symbol is used for looping statement.



(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.