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R—356—2017

FACULTY OF SCIENCE

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

MAY/JUNE, 2017

(CGPA)

COMPUTER SCIENCE

Paper-II

(Foundation of Computer Programming)

(MCQ+Theory)

(Friday, 5-5-2017)

Time : 10.00 a.m. to 12.00 noon

Time— Two Hours

Maximum Marks—40

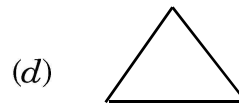
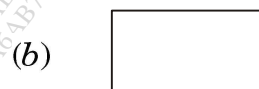
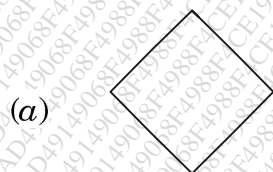
N.B. :— (i) All questions carry equal marks.

(ii) Assume suitable data if necessary.

(MCQ)

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

(1)symbol describe loop in flowchart.



(2) The number which is divisible by one or itself only is.....
number.

(a) even

(b) prime

(c) odd

(d) armstrong

P.T.O.

(3)is correct form of subscripted variable.

- (a) 1[X] (b) X[10]
 (c) [1]X (d) [X]10

(4)is looping statement.

- (a) For (b) If
 (c) Switch (d) Get

(5) The missing number in the following series is :

0, 1, 1, 2, 3, 5, , 12, 31.

- (a) 8 (b) 18
 (c) 28 (d) 38




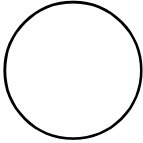
(6) Factorial of 7 is.....

- (a) 5030 (b) 5035
 (c) 5038 (d) 5040

(7)is a prime number.

- (a) 15 (b) 25
 (c) 35 (d) 17

(8)symbol is used as connector.

- (a)  (b) 
 (c)  (d) 

(9)is input device.

- (a) Keyboard (b) Printer
 (c) Monitor (d) None of these

- (10)is also called as stepwise refinement.
- (a) S-design (b) T-design
- (c) Toydown design (d) None of these

(Theory)

2. (a) What is program verification ?
- (b) Write an algorithm to interchange values of two variables.
- Or*
- (c) Explain binary search technique.
- (d) Write an algorithm to find smallest element from array.
3. (a) What is flow chart ? Explain advantages of it.
- (b) Write an algorithm to find factorial of a number.

Or

- (c) Explain merge sort technique.
- (d) Explain with example how Algorithm is converted into flow chart.
4. (a) What do you mean by efficiency of algorithm ?
- (b) Write an algorithm to find GCD of given numbers.

Or

- (c) What is left and right justification of Text ?
- (d) Write an algorithm to check whether given number is Prime or Not.