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PA—316—2024

FACULTY OF SCIENCE

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

APRIL/MAY, 2024

(New Pattern)

COMPUTER SCIENCE

Paper-I

(Programming Logic Concepts)

(Friday, 03-05-2024)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :- (i) Assume suitable data, if necessary.

(ii) Figures to the right indicate full marks.

1. Explain in detail Binary search technique with its algorithm. 15

Or

(a) Write an algorithm to exchange the values of two variables. 8

(b) What is flow chart ? Explain symbols used in flow chart. 7

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(2)

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2. Draw and explain architecture of computer with brief description about ALU, CU and I/O devices. 15

Or

- (a) Write an algorithm to find smallest divisor of an integer. 8
- (b) Explain the concept of top down design. 7
3. Write short notes on the following (any *two*) : 10
- (a) Main memory
- (b) Efficiency of algorithm
- (c) Applications of computer
- (d) Array.

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