

(DCS 322)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the End of Third Year)

COMPUTER SCIENCE & IT

Paper - II : Principles of Programming Languages

Time : 3 Hours

Maximum Marks : 75

Answer question No.1 compulsory

(5 × 3 = 15)

Answer ONE question from each unit

(4 × 15 = 60)

1) Write short notes on :

- a) Programming Domains.
- b) Language categories.
- c) Records and unions.
- d) Data abstraction.
- e) Monitors.

UNIT - I

2) a) Explain about various reasons for studying the programming language principles (or) concepts. **[8]**

b) What are various design issues that influence programming language design. **[7]**

OR

3) Explain about primitive datatypes and type checking. **[15]**

UNIT - II

4) Explain about Arrays and user-defined types. **[15]**

OR

5) a) Explain Arithmetic Expressions, Relational and boolean Expressions. **[8]**

b) Explain various iterative statements. **[7]**

UNIT - III

6) Discuss overloaded sub-programs and design issues of functions. [15]

OR

7) What is Abstraction? Discuss concepts encapsulation and Data. [15]

UNIT - IV

8) Explain semaphores, Monitors, message passing techniques? [15]

OR

9) Explain exception handling in C++, Java. [15]

φφφ