

Roll No.

Exam Code : J-19

Subject Code—0425

M.C.A. (Fifth Year) EXAMINATION

(5 Years Integrated Course)

(Batch 2009 Onwards)

PRINCIPLES OF PROGRAMMING
LANGUAGES

MCA-501

Time : 3 Hours

Maximum Marks : 70

Section A

Note : Attempt any *Seven* questions. **7×5=35**

1. What is Imperative Language ?
2. Differentiate between data abstraction and procedural abstraction.
3. Explain the automata and its type.

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4. Explain the parameter passing methods.
5. Define variable and data type.
6. Describe the logical and physical view of SQL structure.
7. Define the term Encapsulation.
8. Explain the parallel processing languages.
9. Describe the application of Logic Programming.
10. Explain the multiple processes.

Section B

Note : Attempt all the questions.

11. Prove that formula :

$$(00*1)*1*=1+0(0+10)*11$$

Or

What do you mean by influences on language design ? **12**

12. What do you mean by object oriented programming system ? Explain its attributes and characteristics.

Or

What is relational database management system ? Explain the relational algebraic operations. **12**

13. What do you mean by formal logical systems ? Explain its implementation and applications.

Or

What do you understand by functional language ? Also explain the features of functional programming languages. **11**