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Total Pages: 3

CMCA/M-20

10526

PRINCIPLES OF PROGRAMMING LANGUAGES

Paper-MCA-16-23

Time Allowed: 3 Hours] [Maximum Marks: 75]

Note: Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

- 1. Answer the following questions in brief:
 - (a) What is the difference between left recursive and right recursive regular grammar?
 - (b) What the difference between implicit and explicit type conversion?
 - (c) What is short circuit operation?
 - (d) What is an abstract class?

UNIT-I

2. (a) Write a detailed note on the effect of environment on the features of programming languages.

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- (b) What are the activities carried out during analysis phase of the program during compilation?

 Discuss.
- 3. What do you understand by parsing and parse tree? Differentiate between top-down and bottom-up parsing. Use suitable examples.

UNIT-II

- 4. What is the difference between FSA and PDA? Explain using suitable examples.
- 5. (a) Write the grammar to recognize the identifier in C language.
 - (b) What are the merits and demerits of static and dynamic type checking? Explain.

UNIT-III

- 6. (a) What do you understand by polymorphism?

 Differentiate between runtime and compile time polymorphism.
 - (b) How is the sequence control carried out within arithmetic expression? Explain.
- 7. (a) What is the difference between private and public members of a class? Explain.
 - (b) What do you understand by implicit and explicit sequence control? Discuss.

UNIT-IV

- What is the difference between call by value 8. and call by result parameter passing techniques?
 - What is the difference between HTML and XML? (b) Discuss.
- Write notes on the following: 9.
 - Exception handlers. (a)

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