SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL NO: | | | | | | | | | | | | Total number of pages:[1]

Total number of questions: 08

M-Tech. -CSE/ 1st Sem

Advanced Programming Language

Subject Code: CS-509

Paper ID:_____

Time allowed: 3 Hrs Max Marks: 100

Important Instructions:

- Attempt any five questions
- All questions carry equal marks

Q 1. What do you mean be programming paradigms? Explain various types of characteristics used in good programming languages?

Q 2. Differentiate between the following?

a) Binding and Binding Time.

b) Translator and Simulator computers.

Q 3. What are the major attributes for specifying data structures? Explain fixed and variable sized data structures in detail?

Q 4. What are Co-routines? Explain Implicit and Explicit sequence control in detail?

Q 5. What are various syntactic elements of a language? Explain various stages used in translation in detail?

Q 6 What do you mean by Abstract data type? Differentiate between Encapsulation and Information hiding?

Q 7. a) What is Block structure? Differentiate between static and dynamic scope?

b) What is static storage management? Differentiate between stack based and heap based storage management?

Q 8. Write a short note on the following terms

a) Problem in Syntax and Semantics.

b) Batch Processing Environment.

c) Recursive Subprogram.

d) Hardware and Firmware computers.