Paper ID [CS509]

M. Tech.

ADVANCED PROGRAMMING LANGUAGES (CS - 509)

Time : 03 Hours   Maximum Marks : 100

Instruction to Candidates:

1) Attempt any **Five** questions.

2) **All** qustions carry equal marks.

Q1) (a) Explain the relationship between binding time and language implementation?

(b) Differentiate between type checking and type conversion with the help of suitable examples.

Q2) (a) What do you understand by exception handling? Explain.

(b) What are variable size data structures? Explain.

Q3) (a) What are generic subprograms? Explain with suitable example.

(b) What are generic abstract data types? Explain.

Q4) (a) What is implicit and explicit sequence control? Explain the disadvantages of statement labels and goto's.

(b) What are recursive subprograms and how they are implemented? Explain.

Q5) (a) What are associations and referencing environments? Explain.

(b) What do you understand by heap storage management? Explain.

Q6) (a) List and explain different stages in translation.

(b) What is implicit synchronization? Explain.

Q7) What are storage classes? Explain with examples each storage class.

Q8) Write a short note on any two of the followings:

(a) Static and dynamic scope

(b) Run Time Errors

(c) Software simulator