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TCS504

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID: 1076

Roll No.

B.Tech

(SEM V) ODD SEMESTER THEORY EXAMINATION 2009-10 PRINCIPLES OF PROGRAMMING LANGUAGES

Time : 3 Hours]

[Total Marks: 100

Note : Attempt all questions.

1 Attempt any four parts of the following : 5×4=20

- (i) What are part arrays and variant records ?
- (ii) Explain in brief free and fixed field formats of syntax.
- (iii) Explain abstract data types with examples.
- (iv) Write brief note upon abstraction.
- (v) Explain variable size data structure with example.
- (vi) What is binding and binding time ?
- 2

Attempt any four parts of the following :

- List and explain major characteristics of a good programming language.
- Briefly discuss the development in programming methodology.

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5×4

- (iii) Write note on virtual computers.
- (iv) Discuss various classes of binding time.
- (v) What do you understand by software simulated computers ?
- (vi) What are language translators? Discuss the need of language translators.
- 3 Attempt any two parts of the following : $10 \times 2 = 20$
 - (i) Describe sequence control and its types. What are recursive subprograms ?
 - (ii) What is parameter passing what are actual and formal parameters ? Explain call by value and call by reference.
 - (iii) Describe implicit and explicit sequence control with example.

4 Attempt any two parts of the following : $10 \times 2=20$

- (i) Describe heap storage management and its advantages.
- (ii) Describe various syntactic criteria.
- (iii) Differentiate interpreters and compilers.
- 5 Attempt any two parts of the following : $10 \times 2=20$
 - (i) Describe in detail the object oriented programming methodology and its advantages.

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(iii) Compare C and LISP on the basis of various attributes.

environment.

(ii)

What do you understand by operating and

programming environment. List various attributes

of a good operating and programming

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