

Printed Pages: 3 (Following Paper ID and Roll No. to be filled in your

NCS-503

Answer Books)

Roll No.

B.TECH.

Regular Theory Examination (Odd Sem - V), 2016-17 PRINCIPLES OF PROGRAMMING

LANGUAGE

Max. Marks: 100

Time: 3 Hours

Attempt all parts. All parts carry equal marks. Write answer of each part in short. (10×2=20)

SECTION-A

Write any four important uses of programming

assignment a = 2 * (b - 1) - 1 (a > 0). Compare the weakest precondition of the following

What are the advantages of inheritance?

environment. Mention the component of referencing

What is an imperative language?

Define encapsulation. With suitable example.

Differentiate between compiler and interpreter.

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What do you mean by primitive data type?

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Define lambda calculus. What is a simple list?

Attempt any five questions from this section.

SECTION-B

Note:

(5×10=50)

What are the various mechanism for storage two major storage management issues. representation of structured data types? Also explain any

Describe implementation of simple sub programs.

programming languages? Explain with example. What are the key features supported by object oriented

Describe sequence control with various examples

6 Write a recursive program to find the length of a list in

.7 ((lambda(x)(x(yx)))z).simplify the following expression as much as possible What is Lambda? Discuss briefly. Use β -reductions to

SECTION-C

NCS-503

Note: Attempt any 2 questions from this section. (2×15=30)

Give the complete translation structure of the following

Result = start * 10 + phase * 20

structures of multi-paradigm language. different from other languages? Explain the features and Mention some multi-paradigm languages. How they are

Discuss about the fundamentals of functional programming languages

9

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