Answer Books)	(Following Paper ID and Roll No. to be filled in you	Frinted Pages: 3 NCS-

Paper ID: 2012277

Roll No.

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

Time: 3 Hours

LANGUAGE Max. Marks: 100

SECTION-A

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

Write any four important uses of programming Compare the weakest precondition of the following languages.

What are the advantages of inheritance?

assignment a = 2 * (b-1) - 1 (a > 0).

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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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h) What do you mean by primitive data type?

- What is a simple list?
- Define lambda calculus.

SECTION-B

Note: Attempt any five questions from this section.

 $(5 \times 10 = 50)$

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

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

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

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simplify the following expression as much as possible What is Lambda? Discuss briefly. Use β -reductions to

((lambda(x)(x(yx)))z).

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SECTION-C

NCS-503

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

Give the complete translation structure of the following

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Result = start *10 + phase *20.

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

programming languages. Discuss about the fundamentals of functional

9.

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