

ASSIGNMENT # ->3

Test-1

Principal of Programming Languages (NCS-503)

Test date: 22, August 2015

QUESTIONS:

- Describe Stages in translation?
- $C:: = C0 \mid A1 \mid 0$
 $A:: = B0 \mid C1 \mid 1$
 $B:: = A0 \mid B1$
(a.) Show that the generated number are all multiple of 3.
(b.) Show that all such no's are generated by the grammer?
- Consider the following BNF grammar rules:
 $\langle \text{bup} \rangle ::= [\langle \text{bop} \rangle, \langle \text{bup} \rangle] \langle \text{bop} \rangle$
 $\langle \text{bop} \rangle ::= \langle \text{boop} \rangle \mid (\langle \text{bup} \rangle)$
 $\langle \text{boop} \rangle ::= b \mid o \mid p \mid 3 \mid 5$
For each of the following strings, indicate all the syntactic categories of which it is a member, if any:
(i) o
(ii) (b)
(iii) [(o), [p, b]]
(iv) [(p), 5]
(v) [(15, 9)]

OBJECTIVES-

- To learn about the phases of compiler of different programming language.
- To understand how translator works in computer.
- To understand different programming syntax format such as BNF, Regular Expression for different language.

Outcomes: The student will be able to understand the fundamental concept of BNF grammar, Regular Expression and compiler, translator in Principles of Programming Languages.

	Q1	Q2	Q3
CO	1,2	1,2	1,2
PO	1,2,12	1,2,12	1,2,12
PSO	1,4	1,4	1,4