





Explain the concept of regular grammars and how they relate to regular languages (3)

**Group-C**

(Long Answer Type Questions)

5 x 6=30

7. Write a context-free grammar for the language of all well-formed XML documents. (5)
8. Show that the language recognized by a finite automaton is regular. (5)
9. Explain how the Myhill-Nerode theorem can be used to show that a language is not regular. (5)
10. Explain with an example of a regular language that is not a regular set. (5)
11. Differentiate between a left-recursive and a right-recursive grammar (5)
12. Explain about parse tree in context-free grammar? (5)

**OR**

Explain about Chomsky normal form for context-free grammars? (5)

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