## MC 304 (Theory of computation)

## class Test 2

Max. Marks! 20

- 1. Find a seduced grammar equivalent.

  to the grammar S→aAa, A→bBB,

  B→ab, C→aB.
- 12. Reduce the following grammar to chowsky Normal form:  $S \rightarrow 1A/0B, A \rightarrow 1AA/05/0,$   $B \rightarrow 0BB/1S/1.$
- Find a left most derivation and a sight most derivation of the a sight abababa. Is this grammal string abababa. Is this grammal ambiguous?
- St. Show that the language  $L = \{ a^{n2} \mid n \ge 1 \} \text{ is not context. free.}$