

**Part A**

*Time : 2 Hours*

*Marks : 35*

**SECTION I**

**5 x 2 = 10**

- Note :**
1. Answer any five questions, choosing at least two from each of the following groups, i.e. **A** and **B**.
  2. Each question carries **two** marks.

**Group - A**

**(Geometry, Analytical Geometry and Statistics)**

1. Prove that the lengths of the two tangents drawn from an external point to a circle are equal.
2. Find the coordinates of the point which divides the join of  $(2, -4)$  and  $(5, 6)$  in the ratio  $5 : 3$  externally.
3. Find the equation of the straight line passing through  $(4, 3)$  and having a slope  $3$ .
4. The mean of a data is  $9$ . If each observation is multiplied by  $3$  and then  $1$  is added to each result, find the mean of the new observations so obtained.

# Question Out Ssc

**S Ashworth**



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web may 27 2013 in a project for my bachelor of science degree i have to implement in c a lms algorithm the algorithm is put in an iir notch filter the error signal for the adaptive filter is  $e(n) = y(n) - \hat{y}(n)$  implemented the algorithm but it doesn't work i applied a signal at the input of the filter the signal is a sinusoid limited at half of the amplitude

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