LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc.** DEGREE EXAMINATION – **STATISTICS**

FIFTH SEMESTER – NOVEMBER 2012

# ST 5505/ST 5501 - TESTING OF HYPOTHESES

Date : 03/11/2012 Dept. No. Max. : 100 Marks

Time : 9:00 - 12:00

PART – A

Answer ALL questions: (10 x 2 = 20 marks)

1. Distinguish between Simple and Composite hypotheses.
2. Define Best Critical Region.
3. Define Exponential Distribution.
4. When do you call a test uniformly most powerful?
5. Define SPRT for testing HO against H1.
6. State the ASN function for the SPRT for testing Ho: θ = θ0 against H1: θ = θ1.
7. What do you mean by one-tailed and two-tailed tests?
8. State the assumptions for Student’s t-test.
9. Mention the assumptions associat