

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**

**FACULTY OF AYURVED**

**M.D/M.S. Ayurved, November-2016 Examination**

**Year: 1**

**Date: 12/11/2016**

**Subject Code: 02200101**

**Time: 10:00 am to 01:00 pm**

**Subject Name: Research Methodology & Medical Statistics**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions from each section
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write Section –A & Section-B on separate answer sheets.

**SECTION – A (60 Marks)**

- Q.1** What are the objectives of clinical research? Describe the different stages of clinical research and describe the methodology of designing a research protocol of a clinical trial with examples. **(15)**
- Q.2 Write Any One.** **(15)**
- a. Define 'Anusandhan'. How will you apply anumana – pramana in research methodology?
  - b. Define Tantrayukti and Tantradasha. How do these two factors help in research?
- Q.3** Literary research. **(10)**
- Q.4 Answer the following (5 marks each)** **(20)**
- a. Cohort Study
  - b. Hypothesis
  - c. CDCSO and OECD guidelines
  - d. GMP and GLP

**SECTION – B (40 Marks)**

- Q.1** Measures of Variability. Explain Standard Deviation with example. **(10)**
- Q.2** Laws of Probability. **(10)**
- Q.3 Answer the following (5 marks each)** **(20)**
- a. Odds Ratio
  - b. ANOVA test
  - c. Mortality rates
  - d. Random sampling