

**PG Ayurveda Preliminary Supplementary Examinations – February 2014
(2012 scheme)**

**Paper I - Research Methodology and Medical Statistics
(Common for all Specialties)**

Time : 3 hrs

Max marks : 100

- Answer all questions.
- Use only ordinary calculator

Part A

Essays (4x10=40)

1. Describe in detail the steps in a double blind randomized controlled trial, using a suitable example.
2. Explain drug research. Describe the pharmacopeal standards and parameters as set by ayurvedic pharmacopoeia of India
3. Explain the significance of cross-sectional study and prepare a survey using an appropriate example in present scenario
4. Discuss the general guidelines and steps in the research process

Short notes (4x5=20)

5. Cohort study
6. Bias in research
7. Intellectual property rights
8. Bibliography and referencing

Part B

Essays (4x10=40)

9. What do you mean by chi square test. The severity of a disease and blood type were studied. The findings are given in the following table. Find out if there is any association between severity of disease and blood group. (Chi square table value for 5% significance level is 3.84)

		Blood group		
		O+ve	Others	Total
Severity of disease	Yes	51	59	110
	No	489	901	1390
	Total	540	960	1500

10. Define normal distribution and mention the properties of a normal distribution
11. What are measures of central tendency. Explain the different types of measures of central tendency with formula. List the advantages and disadvantages.
12. From the following data of a given city calculate crude birth rate (CBR), and all possible mortality rates. What is a mortality rate.
 Midyear population: 10,000 cases of TB: 100 Total births: 330
 Deaths due to TB: 10 Live births: 300 Total deaths: 100
 Maternal deaths: 1 still births: 30 Deaths within 1st week of life: 10
 Infant deaths: 30
