

M. D. / M.S. (AYURVED) PRELIMINARY (2012 COURSE) :

WINTER - 2017

**SUBJECT: PAPER -1: RESEARCH METHODOLOGY AND
BIO MEDICAL STATISTICS**

Day: **Monday**
Date: **04/12/2017**

W-2017-3583

Time: **10.00 AM TO 01.00 PM**
Max Marks: 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Use **SEPARATE** answer sheet for each section.
- 4) Use of statistical table and calculator is allowed **WHEREVER** necessary.

SECTION-I

WRITE ANY TWO LONG ANSWER QUESTIONS OUT OF THREE

- Q.1** Write about Drug Research and describe G.M.P. Act in detail. **(15)**
- Q.2** Write in details about clinical Research, designs of clinical trials and describe phases of clinical trial. **(15)**
- Q.3** Write definition of Research and describe importance of Pratyakshadi Praman in Ayurvediya Anusandhan. **(15)**
- Q.4** Write **ANY SIX** short notes out of seven. **(30)**
- a) Fundamental and applied research.
 - b) Cohort study
 - c) Questionnaire design.
 - d) Importance of literary research.
 - e) Helsinki declaration.
 - f) Dravya –Guna- karma related fundamental research
 - g) Pharmacovigilance for ASU drugs.

SECTION-II

- Q.5** Explain sampling techniques in detail. **(15)**
- Q.6** Calculate median for following data. **(10)**

C.I.	0-10	10-20	20-30	30-40	40-50
Freq.	25	12	8	15	20

- Q.7** Write any **THREE** short notes out of **FOUR** **(15)**
- a) Standard error
 - b) Measures of variability
 - c) Correlation
 - d) Standard deviation