

(M.D./MS Ayurveda)  
**AYURVEDA VACHASPATI (M.D.AYURVEDA) (2017 COURSE) Preliminary:**  
**WINTER- 2019**  
**SUBJECT: RESEARCH METHODOLOGY & BIO/MEDICAL STATISTICS (T )**

Monday 02-12-2019  
10:00 AM-01:00 PM

W-18043-2019-W-17984-2019  
Max. Marks: 100

N.B.

- 1) Figures to the **RIGHT** indicate **FULL** marks.
- 2) Use of statistical table and calculator is allowed **WHEREVER** necessary.
- 3) Answers to both the sections should be written in the **SEPARATE** answerbooks.

**SECTION – I**

Write **ANY TWO** long answer questions out of three.

- Q.1** Explain the difference between observational and interventional study design in details. Write about RCT in details. **(15)**
- Q.2** Define ‘Research’ and explain Anusandhan Paddhati (Research Methodology) according to Charaksamhita. **(15)**
- Q.3** Write in details about standardization of Ayurvedic Medicines. **(15)**
- Q.4** Write **ANY SIX** short notes out of seven. **(30)**
- a) Types of toxicity studies
  - b) Helsinki Declaration
  - c) Cohort study
  - d) Pharmacovigilance
  - e) Interview
  - f) Need and methods of literature search
  - g) Literary research

**SECTION – II**

- Q.5** Explain variability and write merits, demerits of standard deviation. **(15)**
- Q.6** Calculate mode and median. **(10)**

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|-------|------|-------|-------|-------|-------|
| C.I.  | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 |
| Freq. | 12   | 5     | 15    | 8     | 10    |

- Q.7** Write **ANY THREE** short notes out of four. **(15)**
- a) F- test
  - b) Collection of data
  - c) Chi-square test
  - d) T-test

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