

MS (AYUR) / M. D. (AYURVED) Preliminary (2017 Course): Winter-2021

Subject: Paper-I: Research Methodology & Bio/Medical Statistics

Day: Monday

Date: 24-01-2022

W-17984-2021

W-18043-2021

Time: 2:00 P.M. TO 5:00 P.M.

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 various methods of Data collection with help of following points (15)
- i) Survey study
 - ii) Observations
 - ii) Interviews
- Q. 2** What do you mean by Manuscripts? Describe it with help of - (15)
- i) Role of Manuscripts in literary Research
 - ii) Different Material used for Manuscripts
 - iii) Preservation and Cataloguing of Manuscripts
- Q. 3** Describe Pratyaksha Praman. Write its part in diagnosis, treatment and as Research Tool. (15)
- Q. 4** Write any **SIX** short notes out of seven (30)
- a) Randomized control trials (RCT)
 - b) Single blind and double blind trial
 - c) PubMed
 - d) Intellectual property (Patent)
 - f) Drug identification
 - g) Written consent of volunteers
 - h) Animal Ethical Committee (AEC)

SECTION - II

- Q. 5** What is sampling? Explain various methods of sampling. (15)
- Q. 6** The following table give birth rates and death rate of some countries. Calculate spearman's rank correlation coefficient in them (10)
- | Country | A | B | C | D | E | F | G | H | I | J |
|------------|----|----|----|----|----|---|---|----|---|----|
| Birth rate | 22 | 12 | 10 | 16 | 15 | 8 | 9 | 11 | 6 | 20 |
| Death rate | 14 | 6 | 7 | 12 | 10 | 6 | 8 | 11 | 5 | 9 |
- Q. 7** Write any **THREE** short notes out of **FOUR** (15)
- a) Qualitative and quantitative data sets.
 - b) Probability
 - c) Histogram
 - d) Measures of Variability

* * * * *