

AYURVEDA DHANWANTRI (M.S.AYURVEDA) (2017 COURSE)
Preliminary PESR,SHK,SHL : WINTER- 2022
SUBJECT : RESEARCH METHODOLOGY & BIO/MEDICAL STATISTICS

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 20-02-2023

W-18043-2022

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** Describe the literary research in Ayurveda with help of the following points **(15)**
- i) Various Sources of Literary research
 - ii) Benefits of Data mining
- Q. 2** Describe different fields of research in Ayurveda .Write any one 'Research problem' (synopsis) of your specialized Subject. (Branch of your specialization for post-graduation) **(15)**
- Q. 3** Describe clinical research with the help of following points **(15)**
- a) Phases of Drug development
 - b) Randomized control trials (RCT)
- Q. 4** Write any **SIX** short notes out of seven **(30)**
- a) Pharmacovigilance cell
 - b) TKDL (Traditional Knowledge Digital Library)
 - c) Types of Hypothesis
 - d) Use of "Upaman Praman" in Research
 - f) PUBMED
 - g) HPTLC
 - h) Bias in Research

SECTION - II

- Q. 5** What is sampling? Explain the various methods of sampling in detail. **(15)**
- Q. 6** Following are the results of systolic blood pressure before and after treatment of a hypotensive drug of 9 individuals. Test their significance **(10)**
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| B.P. Before | 122 | 121 | 120 | 115 | 126 | 130 | 120 | 125 | 128 |
| B. P. After | 120 | 118 | 115 | 110 | 122 | 130 | 116 | 124 | 125 |
- Q. 7** Write any **THREE** short notes out of **FOUR** **(15)**
- a) Correlation and regression
 - b) Type I and type II errors
 - c) Qualitative and quantitative data sets
 - d) Chi-sq. test and it's applications

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