

FOURTH B.A.M.S. (2012)/(2017) Examination, Winter - 2023 (Phase - II)
RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Total Duration : 2 Hours

Total Marks : 44

- Instructions :**
- 1) Use black ball point pen only.
 - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
 - 5) Draw diagrams **wherever necessary**.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answer book for all sections.

SECTION - "A" (24 Marks)

(Research Methodology)

1. लघुत्तरी प्रश्न (पाच पैकी कोणतेही चार) :

[4 × 4 = 16]

Short answer question (any four out of five) :

a) आयुर्वेद संशोधनातील ऐतिहासिक पार्श्वभूमी संक्षिप्त लिहा.

State brief historical background of research in Ayurveda.

b) आयुर्वेद अनुसंधानाचे महत्त्व लिहा.

Write importance of research in Ayurveda.

c) अनुसंधान शब्दाची व्युत्पत्ती, व्याख्या व पर्यायी नावे लिहा.

Write etymology, definition & synonyms of the word 'Research'.

d) गुणात्मक संशोधन वर्णन करा.

Describe Qualitative Research.

e) धारक्यात लिहा - धारा.

Describe DHARA.

2. दिर्घोत्तरी प्रश्न :

Long answer question :

a) अनुसंधान प्रक्रियेमध्ये मानवी इथिक्सचे स्वरूप व महत्त्व स्पष्ट करा.
Elaborate concept and importance of Human Ethics in Research process.

OR

b) अनुसंधान प्रक्रियेमधील प्रत्येक टप्प्याचे वर्णन करून महत्त्व लिहा.
Write down importance of each steps of 'Research Process' & describe it.

SECTION - "B" (20 Marks)

(Medical Statistics)

3. लघुत्तरी प्रश्न (चार पैकी कोणतेही तीन) :

[3 × 4 = 12]

Short answer question (any three out of four) :

a) (बायोस्टॅटिस्टिक्स) जैवसांख्यिकी ची व्याख्या लिहा.

Define Biostatistics.

b) अॅवरेज व पर्सेंटायल वर्णन करा.

Describe Average & percentile.

c) स्टॅंडर्ड डेव्हिएशन चा अर्थ उपयोग लिहा.

Write meaning & uses of Standard Deviation.

d) प्रचलित जैवसांख्यिकी सॉफ्टवेअर टिपा लिहा.

Write short note on Commonly used statistical software.

2. दिर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question :

a) पॅरामेट्रीक व नॉन पॅरामेट्रीक चाचणी मधील फरक लिहा.

Write down difference between Parametric Tests & Non Parametric Tests.

OR

b) प्रोबाबिलिटी वर्णन करून, मल्टीप्लीकेटीव नियम, अॅडिटिव्ह नियम व बेयर नियम उदाहरणासहित स्पष्ट करा.

Describe probability & explore Multiplicative rule, Additive rule & Bayes's rule with examples.

Binomial

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