

Fourth B.A.M.S. (2012) Examination, Summer - 2021
RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Total Duration : 2 Hours

Total Marks : 44

- Instructions :**
- 1) Use **blue/black ball point pen only**.
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 - 3) **All questions are compulsory.**
 - 4) The number to the right indicates full marks.
 - 5) Draw diagrams **wherever necessary**.
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 - 7) Use a common answer book for all sections.
 - 8) Use a simple calculator.

SECTION - "A" (24 Marks)

(Research Methodology)

1. लघुत्तरी प्रश्न (पाचपैकी कोणतेही चार) : [4 × 4 = 16]
Short answer question (any four out of five) :
- a) आयुर्वेदामध्ये संशोधनाची आवश्यकता लिहा.
Write need of Research in Ayurved.
 - b) संशोधनामध्ये इथिक्स संकल्पना व त्याचे महत्त्व लिहा.
Write concept and importance of ethics in Research.
 - c) शास्त्रीय लिखाणा विषयी लिहा.
Write about scientific writing.
 - d) संशोधनाच्या प्रकार विषयी लिहा.
Write about the types of Research.
 - e) आयुर्वेदात आढळणाऱ्या संशोधन दाखल्यां विषयी लिहा.
Write about evidences of Research in Ayurvedic classics.

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[1 × 8 = 8]

2. दीर्घोत्तरी प्रश्न :

Long answer question :

a) संशोधन प्रक्रिया सविस्तर वर्णन करा.

Describe research process in detail.

OR

b) संशोधनामध्ये प्रमाण माध्यम सविस्तर वर्णन करा.

Describe role of pramanas as research tools.

SECTION - "B" (20 Marks)

(Medical Statistics)

3. लघुत्तरी प्रश्न (चारपैकी कोणतेही तीन) :

[3 × 4 = 12]

Short answer question (any three out of four) :

a) वैद्यकीय सांख्यिकीचे महत्त्व लिहा.

Write importance of medical statistics.

b) स्टॅण्डर्ड एरर विषयी लिहा.

Write about standard error.

c) डेटा सादरीकरण विषयी लिहा.

Write about the presentation of Data.

d) मेडियन सोदाहरण वर्णन करा.

Describe median with example.

4. दीर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question :

a) 'लॉज ऑफ प्रोबॅबिलिटी' सविस्तर वर्णन करा.

Describe the 'Laws of Probability' in detail.

OR

b) नॉन पॅरामेट्रिक टेस्ट सविस्तर वर्णन करा.

Describe the non-parametric tests in detail.



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Fourth B.A.M.S. (2012)/(2017) Examination, (Phase-III) Winter - 2021
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SECTION - A (24 Marks)
(Research Methodology)

1. लघुत्तरी प्रश्न (पाचपैकी कोणतेही चार): [4 × 4 = 16]
Short answer question (any four out of five):

- a) अनुसंधान.
Anusandhana
- b) गुणात्मक आणि संख्यात्मक संशोधनातील फरक.
Difference between qualitative and quantitative research.
- c) साहित्य समीक्षा.
Review of literature.
- d) परिकल्पना.
Hypothesis.
- e) धारा.
DHARA.

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2. दीर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question:

a) आयुर्वेदातील संशोधनाची व्याप्ती आणि महत्त्व स्पष्ट करा.

Explain the scope and importance of research in Ayurveda.

OR/किंवा

b) संशोधनात प्रमाणाची भूमिका स्पष्ट करा.

Explain the role of the Pramanas in Research.

SECTION - B (20 Marks)

(Medical Statistics)

3. लघुत्तरी प्रश्न (चारपैकी कोणतेही तीन):

[3 × 4 = 12]

Short answer question (any three out of four):

a) निरीक्ष्य समूह.

Population.

b) चल.

Variable.

c) विस्तार.

Range.

d) परिमापनावार आधारित परीक्षण.

Parametric Tests.

4. दीर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question:

a) केंद्रीय प्रकृतिगापनाचे प्रकार लिहून गणिती ग्राह्य परिगणना पध्दतीचे वर्णन करा.

Write measures of central tendency and describe methods for calculation of Arithmetic Mean.

OR/किंवा

b) आधारसामग्री सादरीकरणाच्या पध्दती सविस्तर लिहा.

Write in detail methods of presentation of Data.

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Fourth B.A.M.S. (2012)/(2017) Examination, Phase - II Summer - 2022
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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) आयुष रिसर्च पोर्टल बाबत थोडक्यात लिहा.
Write about Ayush Research Portal.
- b) अनुसंधानात युक्ती प्रमाणाचे महत्त्व लिहा.
Importance of Yukti praman in research.
- c) अनुसंधानाचे पर्याय लिहा.
Write synonyms of the word "Research".
- d) अनुसंधानाचे प्रकार लिहा.
Different types of Research.
- e) "धारा" बाबत थोडक्यात लिहा.
Write short note on "DHARA".

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2. दीर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question :

- a) अनुसंधान प्रक्रियेतील विविध टप्पे लिहून 'मटेरियल व मेथड' बाबत सविस्तर लिहा.
Write different steps in Research Process and describe in brief about 'Material and Methods'.

OR

- b) आयुर्वेदात संशोधनाची व्याप्ती, आवश्यकता, महत्व व उपयोगिता सविस्तर वर्णन करा.
Describe scope, need, importance, utility of Research in Ayurveda.

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) सॅम्पल स्पष्ट करा.
Explain Sample.
- b) व्हेरीएबल स्पष्ट करा.
Explain Variable.
- c) मोड स्पष्ट करा.
Explain Mode.
- d) पर्सेंटाईल स्पष्ट करा.
Explain Percentile.

4. दीर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question :

- a) डाटा संकलन व मांडणी सविस्तर स्पष्ट करा.
Explain in details collection and presentation of data.

OR

- b) मध्यवर्ती प्रवृत्तीचे उपाय स्पष्ट करा.
Explain measures of Central Tendency.



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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) संशोधनात इथिक्स ची संकल्पना व महत्व लिहा.
State concept and importance of ethics in research.
 - b) आयटी मधील डाटा मायनिंगचे महत्व लिहा.
Importance of IT in data mining.
 - c) इंटरव्हेशनल संशोधन वर्णन करा.
Describe Interventional Research.
 - d) पबमेड व धारा विषयी माहिती लिहा.
Describe PubMed & DHARA.
 - e) Qualitative व Quantitative Research व्याख्या व फरक थोडक्यात लिहा.
Write definition & difference between Qualitative & Quantitative Research.

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2. दिर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question :

a) आयुर्वेदिक प्रमाणांची नावे लिहून संशोधनामध्ये त्याचा कसा उपयोग होतो ते स्पष्ट करा.
Name & describe Pramana as a tool of research in Ayurveda.

किंवा/OR

b) अनुसंधान प्रक्रियेमध्ये प्रत्येक टप्पा महत्वासाह स्पष्ट करा.

Elaborate importance of each steps in Research process.

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) अरिथमेटिक सरासरी, मेडियन व मोड लिहा.

Describe Arithmetic Mean, Median & Mode.

b) पसेंटाईल - टिप्पणी लिहा.

Write short note on Percentile.

c) स्टॅंडर्ड डेव्हिएशन.

Standard Deviation.

d) उदाहरणासह हायपोथेसिस ची व्याख्या लिहा.

Define Hypothesis with example.

4. दिर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question :

a) अॅब्सोल्यूट मेजर्स ऑफ वेरियाबिलिटी व रिलेटीव मेजर्स ऑफ वेरियाबिलिटीचे प्रकार वर्णन करा.
Write down types of Absolute measures of Variability & types of Relative Measure of Variability.

किंवा/OR

b) डेटा सादरीकरणाच्या पद्धती सविस्तर लिहा.

Explain different methods of data presentation in Detail.



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

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SECTION - "A" (24 Marks)

(Research Methodology)

1. लघुतरी 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 महत्व 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) थोडक्यात लिहा - धारा.
Describe DHARA.

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2. दिर्घोत्तरी प्रश्न :

[1 × 8 = 8]

Long answer question :

a) अनुसंधान प्रक्रियेमध्ये मानवी इथिक्सचे स्वरूप व महत्व स्पष्ट करा.

Elaborate concept and importance of Human Ethics in Research process.

OR

b) अनुसंधान प्रक्रियेमधील प्रत्येक टप्प्याचे वर्णन करून महत्व 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 पर्सेंटाईल वर्णन करा.

Describe Average & percentile.

c) स्टॅंडर्ड डेव्हिएशन चा अर्थ उपयोग लिहा.

Write meaning & uses of Standard Deviation.

d) प्रचलित जैवसांख्यिकी सॉफ्टवेअर टिपा हिला.

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, अडिटीव्ह नियम व बेयर नियम उदाहरणासहित स्पष्ट करा.

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



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SECTION - A (24 Marks)

(Research Methodology)

1. लघुत्तरी प्रश्न (पाचपैकी कोणतेही चार): [4×4=16]

Short answer questions (any four out of five) :

- a) 'गवेषणा' आणि 'अनुसंधान' व्याख्या स्पष्ट करा.
Explain 'Gavashana' and 'Anusandhan' terms.
- b) 'प्रत्यक्ष' प्रमाणाचे संशोधनातील महत्त्व स्पष्ट करा.
Write Importance of 'Pratyaksha' Pramana in research.
- c) आयुष रिसर्च पोर्टल ची थोडक्यात माहिती लिहा.
Give brief information about AYUSH Research Portal.

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d) IT चे डाटा माईनिंगमधील महत्व स्पष्ट करा.

Write Importance of IT in data mining.

e) Aims (एम्स) आणि Objectives (ऑब्जेक्टिव्ह) चे अनुसंधान प्रक्रियेतील महत्व स्पष्ट करा.

Write Importance of 'Aims and Objectives' step in research process.

2. दीर्घोत्तरी प्रश्न :

Long answer question :

[1×8=8]

a) अनुसंधान प्रक्रियेमध्ये 'एथिक्स' चे महत्व स्पष्ट करा.

Explain Importance of 'Ethics' in Research.

किंवा/OR

b) अनुसंधान प्रक्रियेतील टप्पे त्यांच्या महत्वासह स्पष्ट करा.

Explain research process with importance of each step in brief.

SECTION - B (20 Marks)

(Medical Statistics)

3. लघुत्तरी प्रश्न (चारपैकी कोणतेही तीन):

[3×4=12]

Short answer questions (any three out of four) :

a) मोड/बहुलक बदल थोडक्यात माहिती द्या.

Mode-explain in brief.

b) स्टॅण्डर्ड डेव्हिएशन/प्रमाण विचलन बदल थोडक्यात माहिती द्या.

Standard deviation-explain in brief.

c) पॉप्युलेशन आणि सॅम्पल ह्यांच्या व्याख्या लिहून थोडक्यात वर्णन करा.

Population and sample -define the terms with brief explanation.

d) पर्सेंटाईल-थोडक्यात टिप लिहा.

Percentile-Write short note.

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[1×8=8]

4. दिर्घोत्तरी प्रश्न :

Long answer question :

a) व्हेरिअबिलिटी (वैविध्य) बद्दल माहिती लिहून त्याच्या मापनाचे सविस्तर वर्णन करा.

Describe Variability and its measurement.

किंवा/OR

b) सांख्यिकी आधार सामग्री यंत्रणेबद्दल थोडक्यात लिहा.

Write the commonly used statistical software.



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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) अनुसंधान व्याख्या स्पष्ट करा.
Explain 'Research'.
- b) अनुसंधानाचे प्रकार स्पष्ट करा.
Explain types of Research.
- c) धारा स्पष्ट करा.
Explain 'Dhara'.
- d) संशोधनामध्ये नितीमूल्यांचे (Ethics) महत्व स्पष्ट करा.
Explain importance of Ethics in Research.
- e) संगणकाचे संशोधनातील महत्व स्पष्ट करा.
Explain importance of computers in Research.

2. दिर्घोत्तरी प्रश्न :

03705

[1×8=8]

Long answer question :

a) अनुसंधान प्रक्रियेतील टप्पे स्पष्ट करा.

Explain steps in Research process.

किंवा/OR

b) अनुसंधानातील प्रमाणांचे महत्त्व सोदाहरण स्पष्ट करा.

Explain Role of Pramanas in Research with examples.

SECTION - B (20 Marks)

(Medical Statistics)

3. लघुत्तरी प्रश्न (चार पैकी कोणतेही तीन) :

[3×4=12]

Short answer questions (any three out of four):

a) स्टॅण्डर्ड डेव्हिएशन स्पष्ट करा.

Explain Standard Deviation.

b) अरिथमेटिक मीन-हि एक सेंट्रल टेन्डन्सी आहे, स्पष्ट करा.

Explain Arithmetic Mean is a Central Tendency.

c) पॅरामेट्रीक टेस्ट स्पष्ट करा.

Explain Parametric Test.

d) नॉर्मल डिस्ट्रीबुशन म्हणजे काय?

What is Term Normal Distribution?