

EXAMINATION  
Institute of Indigenous Medicine  
13 JAN 2023  
University of Colombo

010



**INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO**  
**DEGREE OF BACHELOR OF AYURVEDA MEDICINE AND SURGERY**  
**SECOND PROFESSIONAL BAMS (2017/2018) REPEAT EXAMINATION**  
**JANUARY – FEBRUARY 2023**

**A.2.1.6- RESEARCH METHODOLOGY AND MEDICAL STATISTICS**

Date: 13.01.2023

Time: 9.45 am- 12.15 pm

Index No

Answer all questions.

**Part I - Structured Questions**

1.  
1.1. What are the properties of normal distribution (04 Marks)

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1.2. Explain the normal distribution with the graphical presentation? (04 Marks)

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2. What are the differences between grouped data and ungrouped data

(08 Marks)

Dotted lines for writing answer to question 2.

3.

3.1. Briefly explain the terms of cumulative frequency and relative frequency.

(04 Marks)

Dotted lines for writing answer to question 3.1.

3.2. Write about positively skewed and negatively skewed distributions

(04 Marks)

Dotted lines for writing answer to question 3.2.

4.

4.1 Difference between open ended questions and closed ended questions

(04 Marks)

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4.2 Briefly explain Snowball sample

(04 Marks)

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5.1 What is qualitative study?

(04 Marks)

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5.2 Brief about general and specific objectives in research.

(04 Marks)

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### Part II – Essay Questions

1. The following figures are the body weight (kg) of patients admitted to a hospital with a specific health condition.

Body weight of patients (kg)	Frequency
40-44	25
45-49	35
50-54	55
55-59	68
60-64	48
65-69	40
70-74	34
75-79	22

By using the give data; Prepare:

- 1.1 Relative frequency distribution (04 Marks)
- 1.2 Cumulative frequency distribution (04 Marks)
- 1.3 Cumulative relative frequency distribution (04 Marks)
- 1.4 A histogram (04 Marks)
- 1.5 A frequency polygon (04 Marks)

2. Give short notes on (5x4=20 Marks)

- 2.1 Importance of abstract of a thesis
- 2.2 Stratified random sampling
- 2.3 Tables and figures of a research report
- 2.4 References list

Date: 13.01.2023

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