Seat No: _____   Enrolment No: _____

PARUL UNIVERSITY
Parul Institute of Ayurved
BAMS Preliminary Exam Year 4, Feb- 2024

Year: 4th Year BAMS   Date: 12/02/2024
Subject Code: 02101408   Time: 10:00 to 11:30 AM
Subject Name – Research Methodology & Biostatistics   Total Marks: 50

Instructions:
1. All questions are mandatory.
2. Figures to the right indicate full marks.
3. Draw Diagram wherever necessary.

Section 'A' (30 – Marks) - Research Methodology

Q.1	Explain with example use of Anumana in research	(05)
Q.2	Answer any Three from the following. (each 05 Marks)	(15)
	(a) Scope for research in Ayush	
	(b) Selection of research topic	
	(c) What is interventional research? Explain with example	
	(d) Methods for communication of research	
Q.3	Answer any Five Question from the following. (Each 2 Marks)	(10)
	(a) Null hypothesis	
	(b) Alternative hypothesis	
	(c) PubMed	
	(d) What is applied research?	
	(e) What is observational study?	
	(f) Data mining	

Section 'A' (20 – Marks) – Biostatistics

Q.1	Important of statistics in medical and write data collection method.	(05)
Q.2	Answer One Question from the following.	(05)
	(a) Difference between parametric and non-parametric test.	
	(b) Find The Mean, Median and Mode of following data. 2,2,3,3,4,5,5,5,6,7	
Q.3	Answer any Five Question from the following. (Each 2 Marks)	(10)
	(a) Write formula (i)Standard Deviation (ii) Standard Error	
	(b) What are the quartiles and quantiles?	
	(c) Write normal distribution properties.	
	(d) Definition of Random Experiment.	
	(e) Definition of Trial and Event	
	(f) Definition of Marginal probability	