

C.U.SHAH UNIVERSITY**Winter Examination-2022****Subject Name: Biostatistics and Research Methodology- Theory****Subject Code:BP801T****Branch: B.Pharm****Semester: 8****Date: 20/09/2022****Time: 02:30 To 05:30****Marks: 75**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1	Define the following terms:	(20)
A	Statistics	2
B	Biostatistics	2
C	Standard Deviation	2
D	Mean	2
E	Mode	2
F	Frequency distribution	2
G	Probability	2
H	Sampling and Sample size	2
I	Counter plot graph	2
J	Correlation	2

Attempt the following questions:

Q-2	Attempt any two of following:	(20)
A	What is hypothesis? Describe types and testing of hypothesis.	10
B	Write a note on Binomial distribution.	10
C	Discuss the various types of graphs which are used to representation the research Data.	10
Q-3	Attempt any Seven of following:	(35)
A	Explain different types of correlation.	5
B	Explain 2^3 Factorial Design.	5
C	Discuss various phases in designing clinical trial with examples.	5
D	Classify and explain different types of t-tests.	5
E	Write a note on Plagiarism.	5
F	What is Research? What are the objectives/needs for research?	5
G	Write a note on ANOVA (Analysis of Variance).	5
H	Write a note on use of Microsoft excel in statistics.	5
I	Write a brief note on central composite design.	5

