

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY & RESEARCH

PHARM.D. FOURTH YEAR · FIRST INTERNAL EXAMINATION: 2021-2022

Subject Name: Bio Statistics & Research Methodology

Subject Code: 08207404

Time: 10:00 am to 11:30 am

Date: 29/7/2021

Total Marks: 30

Instructions:

- 1. Make suitable assumptions wherever necessary.**
- 2. Figures to the right indicate full marks.**

I Long Essay. (Answer Any One)

10 X 1 = 10M

- 1. What is correlation coefficient? Explain any two methods of correlation coefficient**
- 2. Find mean, median and mode for the following data**

Class	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
Freq	3	8	10	19	25	21	6	5	3

II Short Essay. (Answer Any Two)

5 X 2 = 10M

- 1. There are two series of index numbers P for price index and S for stock of the commodity. The mean and standard deviation of P are 100 and 8 and of S are 103 and 4 respectively. The correlation coefficient between the two series is 0.4. With these data obtain the regression lines of P on S and S on P .**
- 2. Write about types of research.**
- 3. Calculate Karl Person's coefficient of correlation between age of playing habits from the data given below :
(5 Marks)**

Age	20	21	22	23	24	25
No. of student	500	400	300	240	200	160
Regular Players	400	300	180	96	60	24

III Short Answers. (Answer All)

2 X 5 = 10M

- 1. Write about Motivation of Research**
- 2. What is Null Hypothesis?**
- 3. What is relation between mean, median and mode?**
- 4. What is data?**
- 5. The range of data 17,15,25,34,32 is _____**

******* ALL THE BEST *******