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P.D 4.4

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IV/VI PHARM - D DEGREE EXAMINATIONS, JULY - 2022

Fourth Year

BIOSTATISTICS & RESEARCH METHODOLOGY

Time : Three Hours

Maximum : 70 Marks

Answer any FIVE Questions.

5x14 = 70 M

All Questions carry equal marks

1. Write about the following :
 - a) Clinical study design - Observational studies.
 - b) Power of a study.
2. How do you write a report of scientific investigation and explain various methods for presentation of data.
3. Write notes on the following
 - a) Merits and demerits of median.
 - b) Variance.
 - c) Standard error of mean.
4. Write in detail about the following.
 - a) Histogram.
 - b) Scatter plots.
 - c) Semilogarithmic plots.
5. Explain with example the use of computers for pharmaceutical care in community pharmacy.
Add a note on prevalence.
6. Write short notes on the following.
 - a) SAS.
 - b) Null hypothesis.
 - c) Wilcoxon's signed rank test.

P.T.O.

7. In a HPLC analysis the peak height (mm) vs. concentration (mg/ml) of a drug solution is as follows :

Conc.	5	10	15	20	25	30	35	40	45
Peak height	50	150	145	190	180	310	285	395	385

Calculate Pearson's correlation coefficient for the above data.

