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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year Pharm-D (I Year Pharm D Post Baccalaureate) / IV Year Pharm-D Degree Examination – NOV 2017

Time: Three Hours

Max. Marks: 70 Marks

BIOSTATISTICS AND RESEARCH METHODOLOGY Q.P. CODE: 2870 / 2886

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any two)

2 x 10 = 20 Marks

- How will you design a clinical study methodologically? Explain briefly.
- Discuss about the hypothesis testing of parametric data.
- List the applications of computing systems in hospital pharmacy.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

- Explain about standard deviation and variance.
- 5. Explain Pearson's correlation & Spearmann's correlation.
- Calculate the mean for the following data

1 to 6Age in Years	1 to 6	7 to 12		19 to 24	25 to 30	31 to 36
Frequency	6	11	25	20	15	18

- Computer medication order entry.
- Define Epidemiology. Explain types of epidemiological markers.
- 9. Explain how computers can be used for patient record database management in hospital pharmacy
- Distinguish between parametric and non parametric test. For what data is Chi Square Test performed.
- 11. Write notes on relative and attributable risk.

SHORT ANSWERS 10 x 2 = 20 Marks

- List the characteristics of observational studies.
- Define coefficient of variation.
- Characteristics of normal distribution.
- 15. Define semi logarithmic plots.
- 16. What is Chi-square test?
- Type I and Type II errors in hypothesis testing.
- Computer applications in inventory control of pharmaceuticals.
- 19. Degrees of freedom.
- 20. Define surrogate & direct end point.
- Relationship between sample size and power of the study.

