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HOSPITAL ADMINISTRATION

## Bio-Statistics and Quantitative Techniques Q.P. CODE: 8716

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

### LONG ESSAY

1. Estimates of Mean and Standard deviation of time taken for a particular type of surgery in minutes by two surgeons in a certain number of surgeries are as follows. Test whether the two surgeons differ in their mean time.

Surgeon no	No. of surgeries observed	Mean	S.d.
I	17	157	34
II	15	146	31

Note : Test statistics value at P=0.05 for rejection of Null hypothesis at 30 d.f. is 2.00

#### SHORT ESSAY (Answer any Seven)

- Differentiate between Statistics and Statistical methods with their uses in hospital 2. administration
- 3. Describe scales of measurement used for data collection.
- 4. Describe different graphs used for presentation of data.
- 5. Describe different methods of summarizing data in terms of central tendency.
- 6. Describe thruston method of scaling techniques.
- 7. Describe Systematic Random sampling and Multistage Random sampling methods with examples.
- 8. What is Binomial distribution? In a big hospital there are six X-ray machines and it is observed that on certain days few of the machines are not working and the probability of two machines M.FirstRanker are not working on a day.

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9. Describe Spearmans rank correlation.

#### SHORT ANSWERS (Answer any Five)

- 10. Multistage sampling
- 11 Standardized normal variate
- 12 Confidence interval
- 13. Sampling variation
- Correlation coefficient 14.
- 15. Regression coefficient

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1 X 20 = 20 Marks

05 X 02 = 10 Marks

7 X 10 = 70 Marks

# Firstrafkajath Gandhi University of Health Sciences

II Semester M.H.A Degree Examination - APRIL-2019

[Time: 3 Hours]