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**2 PG DODL COM 3**

**2017**

(December)

(Held in January 2018)

**COMMERCE**

Paper : 203

**(Research Methodology and  
Statistical Analysis)**

Full Marks : 80

Time : Three hours

**The figures in the margin indicate  
full marks for the questions.**

*Answer the following.*

1. (a) The difference in earnings of different income categories is responsible for different buying and usage habits of washing powder.

You have been asked to conduct a survey and choose a sample. What kind of sampling will you avail ? Reason out your answer.

**Or**

(b) Discuss the difference between ratio scale and interval scale. 16

2. (a) What is data and what are the types of data ? Give examples and explain the types of data. 8+8=16

**Or**

(b) Justify the use of time series analysis in research. 16

3. (a) Discuss on conditional probability and Baye's Theorem. 16

**Or**

(b) Discuss the Statistical Decision Theory. 16

4. (a) What do you understand by testing of hypotheses ? 16

**Or**

(b) How is sampling distribution done in large and small samples ? 16

5. (a) Explain the Wilcoxon signed test.

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**Or**

(b) Explain the Kruskal-Walle's test.

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