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CIS 403

First Semester M.Com. (IBM) Degree Examination, December 2018 (CBCS) COMMERCE Business Research Methods

Time: 3 Hours Max. Marks: 70

SECTION - A

Note: Answer any four questions out of seven questions. Each question carries 10 marks. Answer to each question should not exceed 4 pages. (10×4=40)

- 1. What do you mean by research? What are its objectives? Explain different approaches to research.
- 2. What do you mean by good research design? Explain its characteristic features.
- 3. Define secondary data. What are its sources? Explain the precautions to be taken while using secondary data.
- 4. Explain the various types of research reports. Briefly explain the contents of a research report.
- 5. Calculate the standard error of mean from the following data:

Mid value : 39 49 59 69 79 89 99 Frequency: 1 2 7 10 15 13 2

- 6. The mean life of a sample of 100 bulbs produced by a company is 4800 hours with a standard deviation of 400 hours. The company claims that the average life of the bulbs is 5,000 hours. Is the claim acceptable @5% significance level.
- 7. A researcher has collected data of 100 shops in a particular region.

| | Shops | | | | |
|--------------|---------|------------|--|--|--|
| | In Town | In Village | | | |
| Run by Men | 40 | 30 | | | |
| Run by Women | 10 | 20 | | | |

Can it be inferred that most of the shops are run by men? Test level of significance by applying x^2 test.



SECTION - B

Note: Answer any two questions out of three questions. Each question carries 15 marks. Answer to each question should not exceed 7 pages. (15×2=30)

- 8. Distinguish between census and sampling enumeration. Discuss their relative merits and demerits.
- 9. A firm found with the help of a sample survey of a city (size of sample 900) that 3/4ths of the population consumes things produced by them. The firm then advertised the goods in paper and radio. After one year, a sample size of 1,000 reveals that proportions of consumers of the goods produced by the firm is 4/5ths. Is this rise significant to indicate that the advertisement was effective? Test the hypothesis at 5% significance level.
- 10. Goodwill Company has purchased three new machines of different makes and wishes to determine whether one of them is faster than the other in producing a certain product. Production figures for 5 hours are observed at random from each machine and the results are as follows:

| Machine | Hourly production (Units) | | | | | | | |
|---------|---------------------------|----|----|----|----|--|--|--|
| Α | 27 | 29 | 35 | 40 | 29 | | | |
| В | 29 | 38 | 41 | 42 | 40 | | | |
| С | 25 | 29 | 27 | 28 | 31 | | | |

On the basis of the above information, can we conclude that the machines are significantly different in their mean speed at 5% significance level.