2016

INTEGRATED M.Phil. & Ph.D. PROGRAMME

1st Semester Examination

COMMERCE

RESEARCH METHODOLOGY-II

PAPER -- COM-112

Pull Marks: 25

Time : 1 Hours

The figures in the right hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

- 1. Answer any two questions from the following: 5×2
 - (a) Write brief notes on :
 - (i) Type-I error and Type-II error.
 - (ii) Level of siginificance.
 - (iii) Degree of freedom.

$$(2+1\frac{1}{2}+1\frac{1}{2})$$

(b) Define primary data. Name the methods for collecting primary data. Briefly describe any one of them.

1+1+3

- (c) Explain the method of drawing a stratified sample.

 State the situation where stratified random sampling is preferred to simple random sampling.
- (d) What is an error? Distinguish between sampling error and non-sampling error.
- 2. Answer any one question from the following: 10×1
 - (a) (i) A die is thrown 120 times. Denote the observed number of occurences of i by O_i , (i=1,...6). $O_1 = 25$, $O_2 = 17$, $O_3 = 15$, $O_4 = 23$, $O_5 = 24$, $O_6 = 16$. Can we consider the die to be fair at the 5 percent level of significance?

[Given that $\chi^2_{0.05,5} = 11.07$]

(ii) India Today Magazine reported the result of a telephone poll of 800 adult Indians. The question posed of the Indians who were surveyed was: "Should the federal tax on cigarettes be raised to pay for health care reform?" The results of the survey were: . 7

Is there sufficient evidence at α = 0.05 level to conclude that the two populations – smokers and non-smokers – differ significantly with respect to their opinions? 5+5

- (b) (i) Distinguish between internal and external sources of data collection. In which situations would you recommend the use of one over the other?
 - (ii) Explain the interview method of data collection.

 State the advancements that have been made in the technique in recent times.

 5+5

[Internal Assessment : 5 Marks]