 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Com.** DEGREE EXAMINATION - **COMMERCE**

THIRD SEMESTER – **NOVEMBER 2012**

# CO 3804 - RESEARCH METHODOLOGY

Date : 06/11/2012 Dept. No. Max. : 100 Marks

Time : 9:00 - 12:00

SECTION-A

Answer ALL questions: (10x2=20)

1. What do you mean by alertness in research?

2. State the uses of review of literature in research.

3. What do you mean by cause and effect relationship?

4. What is meant by variable?

5. How to set a research problem?

6. What is sample design?

7. What do you understand by degree of freedom?

8. What is covert observation?

9. List out the steps involved in using Median Test.

10. The theory predicts that the proportion of beans in the four groups A,B,C and D should be

9:3:3:1.In an experiment among 1,600 beans, the numbers in the four groups were

882,313,287 and 118.Does the experimental result support the theory? Apply Chi- square test

at 5% level of significance given the( Table value =7.815)

SECTION-B

Answer any FIVE questions: (5X8=40)

11. List out and explain the criteria of good research.

12. Briefly explain the classification of research design.

13. Choose a topic for research and try to construct the objectives and hypothesis statements.

14. What are the aspects to be covered while the following reports are prepared?

a) Bank reports b) Educational reports c) Clinical reports.

15. What are the guidelines involved in drafting a standard questionnaire?

16. What is meant by objectivity in research? How to measure objectivity in research? State the

methods available to establish objectivity in research.

17. Two groups of high school students, each containing 8 members, earn the following scores:

|  |
| --- |
| A 19 28 14 23 14 17 12 15 |
| B 25 23 29 15 27 21 24 20 |

Do the two groups differ significantly? Apply the sum- of -Ranks Test. (Table value at 5%

significance level: Z= 1.96)

18. Jeya Tea Store has shops at three locations in the city. The owner keeps a daily record for

each location of the numbers of customers who actually make a purchase. A sample of the

data is as follows. Using the Kruskal-wallis test, Can you say at 5% level of significance that

the shops have the same number of customers.(Table value =5.991)

|  |  |  |
| --- | --- | --- |
| Location-A | Location-B | Location-C |
| 99  64  101  85  79  88  97  95  90  100 | 83  102  125  61  91  96  94  89  93  75 | 89  98  56  105  87  90  87  101  76  89 |

SECTION-C

Answer any TWO questions: (2X20=40)

19. Discuss the steps involved in the research process.

20. Enumerate the types, merits and demerits of interview method of collection of data.

21. a)Following are the performance scores of two groups of 13 and 12 executives trained by two

different methods

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Method X* | 20 | 25 | 28 | 30 | 32 | 35 | 40 | 42 | 43 | 45 | 47 | 48 | 49 |
| *Method y* | 19 | 22 | 25 | 29 | 33 | 36 | 41 | 45 | 46 | 48 | 49 | 50 | -- |

Test the *HO* that there is no difference in the effectiveness of the two training methods .Apply

Wald Wolfowitz test at 1% significance level.(Table value= 2.58) (10) Marks

b) A large hospital hires most of its nurses from the two major universities in the area. Over the

last year, they have been giving a test to the newly graduated nurses entering the hospital to

determine which school, if either, seems to educate its nurses better. Based on the following

scores ( out of 100 possible points), help the personnel office of the hospital to determine

whether the schools differ in quality . Use the Mann- Whitney ***U*** - test with a 5% level of

significance. (Table value= 37) (10) Marks

Test Scores

|  |
| --- |
| *School A*  97 69 73 84 76 92 90 88 84 87 93 -- -- |
| *School B* 88 99 65 69 97 84 85 89 91 90 87 91 72 |