

First Year M.Sc Nursing Degree Supplementary Examinations - May 2014

NURSING RESEARCH AND STATISTICS
(Common for all specialties)

Time : 3 hrs

Max marks : 100

- Answer all questions.
- **Write Section A and Section B in separate answer books(32 Pages). Do not mix up questions from Section A and Section B.**
- Use only ordinary calculator.

Q.P.Code 103375 SECTION-A NURSING RESEARCH

Marks: 75

Essays

1. Highlight the characteristics of scientific research. Enumerate the significance of research in nursing (10+10= 20)
2. What are the factors to be considered for the selection of research problem. Explain how the title of a research study differs from problem statement with an example. (8+7=15)
3. Discuss the need for qualitative research in nursing. How 'grounded theory' differs from 'ethnography'. (7+ 8=15)
4. Explain briefly the ethical principles in nursing research. (10)

Short notes

(3x5=15)

5. Sampling error
6. Experimental design
7. Research Proposal

Q.P.Code 104375 SECTION-B STATISTICS

Marks: 25

Essay

1. The mean values of birth weight with standard deviations and sample sizes are given below by socio economic status. Which is the suitable statistical test to find out significance of the mean difference in birth weight between socioeconomic groups. Conduct the statistical test and draw your conclusion. **Critical value at 5% level and for 23 degrees of freedom is 2.069** (1+8+1=10)

| Details | High socio-economic group | Low socio-economic group |
|--------------------|---------------------------|--------------------------|
| Sample size | 15 | 10 |
| Birth weight (kg) | 2.91 | 2.26 |
| Standard deviation | 0.27 | 0.22 |

Short notes

(3x5=15)

2. Levels of measurements
3. Randomized block design
4. Simple linear regression analysis
