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THIRD EXAMINATION FOR MEDICAL DEGREES PART II, 07th FEBRUARY 2004
COMMUNITY MEDICINE PAPER I

Answer ALL FIVE questions

Answer Part A, Part B and Part C in SEPARATE books

Duration: Three Hours

Part A

1. Describe the following in a Health Unit Area in Sri Lanka.
 - 1.1 The role of the public health staff in the Well Women Clinic programme. (50 marks)
 - 1.2 The implementation of the school health programme. (50 marks)
2. Write notes on the following:
 - 2.1 Occupational hazards of nurses. (25 marks)
 - 2.2 Indicators of Health. (25 marks)
 - 2.3 Anthropometric measurements in the nutritional assessment of infants and pre-school children. (25 marks)
 - 2.4 Prevention of iron deficiency anaemia among women of child bearing age in a community. (25 marks)

Part B

3. 3.1 Describe 'random error' in epidemiological studies and the steps taken to reduce them. (50 marks)
- 3.2 Describe the measures used in comparing disease frequencies in populations indicating the information they provide. (50 marks)

Part C

4. Write notes on the following:
 - 4.1 Standardized mortality rates. (40 marks)
 - 4.2 Migration and how it is measured. (30 marks)
 - 4.3 Chlorination of a domestic well. (30 marks)

5. 5.1 Write notes on the following

5.1.1 Measures of dispersion.

(25 marks)

5.1.2 Methods of data presentation.

(25 marks)

5.2 A research study was carried out to find out the effect of oral contraceptives(OC) on serum triglyceride level. Fasting serum triglyceride level was measured in 15 women using OC and in 15 women who were not using OC. The means and the standard deviations for the two groups are given below.

OC use	Mean fasting triglyceride level (mg/dl)	Standard Deviation (mg/dl)
Users (n=15)	94.0	40.0
Non-users (n = 15)	72.0	30.0

5.2.1 Write the null hypothesis for the above research study.

(10 marks)

5.2.2 Perform a significance test and state your conclusion at 0.05 two-sided significance level.

(40 marks)

t table

Df.	Area in two tails	
	0.05	0.01
12	2.179	3.055
13	2.160	3.012
14	2.145	2.977
15	2.131	2.947
16	2.120	2.921
17	2.110	2.898
18	2.101	2.878
19	2.093	2.861
20	2.086	2.845
21	2.080	2.831
22	2.074	2.819
23	2.069	2.807
24	2.064	2.797
25	2.060	2.787
26	2.056	2.779
27	2.052	2.771
28	2.048	2.763
29	2.045	2.756
30	2.042	2.750