## UNIVERSITY OF RUHUNA FACULTY OF MEDICINE



## THIRD EXAMINATION FOR MEDICAL DEGREES PART II, DECEMBER 2014 COMMUNITY MEDICINE PAPER I

Answer ALL FIVE questions.

Answer each part in a SEPARATE book.

Time: 09.00 a.m. - 12.00 noon

Duration: Three Hours

- :-	PARTA				
1.		-			
1.1	<ul> <li>1.1.1 List the methods available for 'household water purification'.</li> <li>1.1.2 Briefly describe the advantages/disadvantages of the methods mentioned in 1.1.</li> </ul>	(10 marks) (40 marks)			
1.2	Briefly explain the following; 1.2.1 Factors affecting the reduction of fertility levels in developed countries 1.2.2 Population aging	(25 marks) (25 marks)			
······	PART B				
2.	tage in the year.				
2.1	What dietary advice would you give for a 2.1.1 preschool child with an acute febrile illness? 2.1.2 teenage girl with obesity?	(30 marks) (30 marks)			
2.2	How would you advice a pregnant mother regarding dietary management				
	following conditions?				
	2.2.1 Hyperemesis gravidarum (Morning sickness)	(15 1)			
	2.2.2 Reflux oesophagitis	(15 marks)			
	2.2.3 Constipation	(15 marks) (10 marks)			
	PART C	(10 marks)			
3.	<ul> <li>A service of the property of the service of the servi</li></ul>				
3.1	Briefly describe the	* **			
	3.1.1 periodic medical examination.	(25 marks)			
	3.1.2 role of public health inspector in occupational health.				
	3.1.3 post-partum contraception.	(25 marks)			
	3.1.4 age appropriate immunization.	(25 marks) (25 marks)			
	PART D	(25 murks)			
4.	<del></del>				
4.1	Explain, briefly the following.				
	4.1.1 Descriptive statistics	(15 manulus)			
	4.1.2 Characteristics of normal curve	(15 marks) (15 marks)			
4.2	A research has been conducted to find out whether there is a gender difference				
	in smoking. A representative sample of 600 adults (300 males and 300				
	females) was surveyed. Of them, 100 males and 30 females were smokers.				
	4.2.1 Write the null hypothesis.				
	4.2.2 Prepare a 2 x 2 contingency table.	(10 marks) (20 marks)			
	TOST THE HULL HYDOURESIS AT 50% IPVPI HEING Chi-causes took	(40 marks)			
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## <u>PART E</u>

5.

- 5.1 Write brief notes on
  - 5.1.1 handling confounding at the design stage of study.

(25 marks)

5.1.2 selection of subjects for a case control study.

(25 marks)

5.2 A group of scientists have recently created a screening test that they believe is very simple and effective in diagnosing prostate cancer in the early stage. The following table shows the results of 300 subjects who underwent the screening test.

	Screening test result	Disease status		Total
		Positive	Negative	iotai
r	Positive	124	21	145
٢	Negative	59	156	215
-		183	177	360

5.2.1 What is the specificity of the screening test? What does it imply?

(25 marks)

5.2.2 What is the negative predictive value of the screening test?

What does it imply?

(25 marks)