



UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES PART (II) – August 2023
Academic Year 2017/2018

Community and Family Medicine-Paper II

Date: 22.08.2023

9 am to 12 noon. (3 hours)

Answer all the **six** questions

Answer each question in a separate answer book.

1. Mrs. V is one of the follow-up patients at Family Health Centre Kondavil for her bronchial asthma. One day Mrs. V visited to the Family Health Center with her 12-year-old daughter, a diagnosed person with an autism spectrum disorder (ASD). Mrs. V was interested in discussing her daughter's future.

As the first step, the family physician performed a detailed clinical evaluation and the finding was as follows. The daughter's gross and fine motor activities were age appropriate and always preferred to do the same type of activities. She became irritated when requested to do new things. She found it difficult to dress and manage her personal hygiene, and her communications both verbal and nonverbal were not age appropriate. Further, she found difficulties in identifying the letters and numbers. Interestingly she is very good at dancing. Further, the daughter has good family support mainly her elder sister is really keen to support this girl and her father is a bank manager. Mrs. V is keen to train her daughter to lead an independent life.

Finally, the family physician prepared a management plan for this daughter with the guidance of her mother Mrs V. Now they follow the management plan.

1.1 Define Autism Spectrum Disorder? (20 Marks)

1.2 List five (05) common health problems encountered by this family? (30 marks)

1.3 Consider yourself as the Family Physician and discuss on the detail management plan for this girl with ASD? (50 marks)

2.

2.1 A week-end newspaper has reported that maternal deaths due to sepsis are increasing in Sri Lanka.

2.1.1 Define maternal death (10 marks)

2.1.2 Describe how you would verify this statement. (25marks)

2.2. Recent police evidence shows that the number of criminal abortion cases is increasing in a Medical Officer of Health (MOH) area.

2.2.1 List four (04) possible causes for increasing criminal abortion (20 marks)

2.2.2. As the MOH, outline a plan of action that you would prepare to reduce criminal abortion in your area. (30marks)

2.3. Healthy Lifestyle Centres have been established by the Ministry of Health for the prevention and control of non-communicable diseases. It is found that utilization of these services is minimal.

2.3.1 List three (03) strategies that you would take to improve the utilization of these services. (15 marks)

3. Data related to leptospirosis in two Medical Officer of Health areas were reviewed to plan future action for prevention and control of leptospirosis. The number of new cases of leptospirosis reported for the year 2022 in MOH area 'A' and 'MOH area B' was 45 and 80 respectively. The estimated population of these two MOH areas in the same year was 50,000 and 30,000 respectively.

3.1. Calculate the measure of disease frequency that can be obtained using the above data for the two MOH areas separately. (20 marks)

3.2. Calculate the risk estimate and interpret the results. (30 marks)

3.3. List four (04) additional variables that you would seek in order to describe the epidemiology of leptospirosis. (20 marks)

3.4. On further inquiry, it was found that there were two deaths in each MOH area due to leptospirosis in the year 2022. Calculate the relevant mortality indicators and describe the usefulness of each mortality indicator. (30 marks)

4. A case control study carried out to assess the relationship between formula feeding and wheezing.
- 4.1 List five (5) characteristics of a case control study. (25 marks)
- 4.2 List three (3) disadvantages of case control studies. (15 marks)
- 4.3 The results of the above study are given below. Interpret the results.
- 4.3.1. Odds ratio = 3.2 (95% CI: 2.0 - 5.7) (30 marks)
- 4.3.2. Chi square value = 4.2; df=1, p value =0.034 (30 marks)
5. Disability is an emerging public health problem in Sri Lanka.
- 5.1 List five (05) leading causes for disability in Sri Lanka (20 marks)
- 5.2 List three (03) special needs of disabled when approaching services at public institutions (15 marks)
- 5.3 Name three (03) organizations providing care for disabled in Jaffna district (15 marks)
- 5.4 Briefly describe the services provided by **one** of the organization mentioned in 5.3 (20 marks)
- 5.5 Discuss the role of primary care physician in prevention of disability among elderly. (30 marks)
6. Write short notes on the following.
- 6.1 Diabetic foot care (25marks)
- 6.2 Acute Flaccid Paralysis surveillance (25 marks)
- 6.3 Sensitivity of a screening instrument (25 marks)
- 6.4 Electronic Indoor Morbidity and Mortality Return (eIMMR) (25 marks)