

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHILD HEALTH EXAMINATION
OCTOBER 2023

Date:- 18th October 2023

Time:- 9.00 a.m. - 11.30 a.m.

STRUCTURED ESSAY PAPER

Answer **all five (05)** questions.

Answer each question in a separate book.

1. An 8-month-old boy is admitted with frequent loose stools of three weeks duration. He has been passing four to seven episodes of watery stools within a day.

He was previously well, and developed diarrhoea 3 weeks back associated with fever, vomiting and poor feeding. Except for consistency and frequency of stools all the other symptoms resolved within three days.

Currently the child is on frequent breast feeding and two semisolid feeds a day. On examination, the child is active and he has no signs of dehydration. Weight for length lies between -2SD and -3SD. He has some perianal excoriation.

- 1.1. Mention the most likely reason for this presentation. (20 marks)
- 1.2. List four (04) investigations you would perform in the management. (20 marks)
- 1.3. Outline four (04) important aspects in the management of this child during the hospital stay. (40 marks)
- 1.4. Outline the pathophysiological basis for this presentation. (20 marks)
2. A 7-month-old baby is admitted to the paediatric ward with a history of high fever and erythematous rash. A clinical diagnosis of measles is made.
- 2.1. State the incubation period of measles. (10 marks)
- 2.2. Outline the characteristic features of the measles skin rash. (20 marks)
- 2.3. Describe the pathognomonic physical sign of measles. (20 marks)
- 2.4. State the micronutrient deficiency that could worsen the prognosis of measles. (15 marks)
- 2.5. Mention the timing and the route of measles vaccination, according to the national immunization program (10 marks)
- 2.6. Outline the rationale behind the timing of measles vaccination in the national immunization program (25 marks)

Contd.../2-

3.

3.1. State the definition of childhood hypertension. (20 marks)

3.2. Mention four (04) complications of childhood hypertension. (20 marks)

A 12-year-old, apparently healthy boy was referred to the outpatient department of a base hospital for a routine medical examination prior to an athletic competition. His blood pressure is measured as a part of the examination.

3.3. List three (03) important aspects you should follow in order to obtain an accurate blood pressure reading in this child using a sphygmomanometer. (30 marks)

His blood pressure was recorded as 130/85 mmHg.

3.4. List three (03) further evaluations you would perform in this child. (30 marks)

4. A 2-year-old girl was brought to the paediatric clinic, with isolated speech delay. Her parents are nonconsanguineous and healthy. She was born at term with a birth weight of 3.0 kg. Her perinatal period was uneventful.

During examination, she was constantly playing with a doll and became aggressive when the doll was taken away from her.

4.2. State the most likely diagnosis. (10 mark)

4.3. List four (04) other clinical features that you would elicit to support the diagnosis mentioned in 4.1. (20 marks)

4.4. List four (04) risk factors for the development of the condition mentioned in 4.1. (20 marks)

4.4. Outline the principles of the management of this child. (30 marks)

4.5. Mention two (02) important roles of a Medical Officer of Health in order to achieve a better outcome in children with this condition. (20 marks)

5. A 26-hour-old baby boy was evaluated by a Medical Officer attached to the neonatal unit, as the baby has not passed urine since birth. He was born at term through an uncomplicated normal vaginal delivery, with a birth weight of 2.3 kg. On examination his bladder was palpable.

5.1. State the most likely diagnosis in this baby. (15 marks)

5.2. Mention the immediate intervention indicated. (15 marks)

5.3. List four (04) investigations that you would perform at this stage. (20 marks)

5.4. Mention one (01) investigation to confirm the diagnosis with expected findings. (20 marks)

5.5. Briefly outline the immediate and long-term management of this baby. (30 marks)