

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHILD HEALTH EXAMINATION
OCTOBER/NOVEMBER 2022

Date:- 5th October 2022

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-week-old baby is seen in the at-risk clinic. She was born at term by an emergency LSCS due to obstructed labour. The neonatal records show that the baby had hypoxic ischaemic encephalopathy grade III. Birth weight was 3.2 kg.
Clinical assessment of this infant confirms high risk for cerebral palsy.
 - 1.1. List five (05) other neonatal complications that would have contributed towards causing current clinical condition. (10 marks)
 - 1.2. Outline briefly three (03) principles in early intervention that would improve the functional outcome. (30 marks)
 - 1.3. At the age of 3 months, the Child Health Development Record (CHDR) shows flattening of weight.
List three (03) reasons for weight faltering in this infant. (15 marks)
 - 1.4. As a member of the paediatric team briefly discuss three (03) other important aspects of management during regular paediatric clinic visit. (30 marks)
 - 1.5. List three (03) strengths and two (02) limitations of the CHDR as a developmental monitoring tool. (15 marks)

2. An 11-month-old infant presents with fever, loose stools and vomiting of two days duration. He has not passed urine over the last 10 hours. His body weight is 8 kg. On examination, he is lethargic with depressed fontanelle and low volume pulse. His systolic blood pressure was 50 mmHg with unrecordable diastolic blood pressure.
- 2.1. List five (05) other physical signs that would help in the management. (10 marks)
 - 2.2. Outline the fluid management in the first 24 hours. (30 marks)
 - 2.3. List four (04) important investigations that will help in the diagnosis and management. (20 marks)
 - 2.4. After one hour of admission the infant has a generalized tonic clonic convulsion.
List four (04) possible causes for the convulsion. (20 marks)
 - 2.5. List four (04) benefits of zinc supplementation. (20 marks)
3. A 2-year-old boy who is diagnosed with trisomy 21 with complete atrial ventricular canal defect, admitted with weakness of right upper and lower limb for two days duration. He is the first born to a 24-year healthy mother.

His investigations are given below.

WBC	21,700 x 10 ⁹ /L	(4-10)
	Neutrophil - 90%	
Platelet count	191,000/mm ³	(150,000 -450,000)
Hb	17 g/L	
Haematocrit	51%	
C-reactive protein	158 mg/L	

- 3.1. List two (02) possible causes for his neurological presentation. (20 marks)
- 3.2. List three (03) investigations that you would perform with expected findings to arrive at a diagnosis. (15 marks)
- 3.3. Outline the management of this patient. (35 marks)
- 3.4. Briefly outline how you would counsel this mother for her next pregnancy. (30 marks)

4. A newborn is noted to be icteric at 18 hours of life. He was born by a normal vaginal delivery following an uneventful pregnancy. Birth weight is 3 Kg. He is active and has fed well since birth.

His mother's blood group is O positive.

- 4.1. List three (03) possible causes for his jaundice. (20 marks)
- 4.2. List five (05) investigations with expected findings that you would perform. (25 marks)
- 4.3. Outline the management of this baby during next 48 hours. (30 marks)
- 4.4. Name two (02) acute complications that this baby may develop. (15 marks)
- 4.5. List five (05) possible long-term complications of this baby. (10 marks)

5. A 12-year-old boy who is diagnosed with haemophilia-A is admitted with recurrent episodes of haemarthrosis. Currently, he is in severe pain due to swelling of the left knee. He is brought by the paternal aunt who is the sole caregiver and working in an estate. His father was assassinated 3 years ago and the mother has been working abroad for past 8 months.

He has been dropped out from the school since grade one. He cannot read or write but can comprehend well. He has a 3-year-old sister.

- 5.1. Briefly discuss the initial steps in the management of his acute condition. (25 marks)
- 5.2. Identify five (05) social and three (03) health related complications that you would anticipate. (25 marks)
- 5.3. List three (03) state sector officers (non-health) essential to involve in the management of the social concerns. (15 marks)
- 5.4. Outline the management of this family with regard to complications identified in 5.2 (25 marks)
- 5.5. Comment on the legal framework for this mother to seek employment abroad. (10 marks)

