

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHILD HEALTH EXAMINATION
OCTOBER 2014

Date : 2nd October 2014

Time : 9.00 a.m. – 12.00 noon

STRUCTURED ESSAY PAPER

Answer all six questions.

Answer each question in a separate book.

1. Briefly enumerate the steps to be taken in the following clinical situations.
 - 1.1. Counseling a 23 years old primigravida who has delivered a baby with features of Down syndrome. (25 marks)
 - 1.2. The management of a one year old baby presenting with a spiral fracture of the right femur. (25 marks)
 - 1.3. The management of a day old baby delivered vaginally who presents with profuse bilateral eye discharge. (25 marks)
 - 1.4. The management of a new born baby with a lumbar menceingomyelocele. (25 marks)

2. A six year old boy is admitted following a generalized tonic clonic convulsion. He had been unwell for the last two days, with headache, vomiting and reduced urine output. He gives a history of fever and sore throat 2 weeks prior to this illness. His past medical history is unremarkable.

On examination he was semiconscious and afebrile. There was bilateral ankle oedema. Blood pressure was 170/110 mmHg.
Soon after admission he had another convulsion.

 - 2.1. What is the cause for the convulsions in this child ? (20 marks)
 - 2.2. What is the underlying illness ? (10 marks)
 - 2.3. Write three (03) other specific clinical features you would look for to support your diagnosis mentioned in 2.1. (15 marks)

- 2.4 What is the most important immediate therapeutic measure apart from controlling convulsions ? (15 marks)
- 2.5 List four (04) important investigations giving reasons, which will help you in the management of this child. (20 marks)
- 2.6 Write four (04) important observations you would monitor during your routine ward rounds. (20 marks)
- 3 A 4 year old boy is admitted with a 2 week history of cough. His eyes showed bilateral sub-conjunctival hemorrhages. He is living in a socially deprived area of Colombo with his mother, 3 other siblings and grandparents.
- 3.1 What is the most likely clinical diagnosis ? (10 marks)
- 3.2 How will you confirm the diagnosis ? (20 marks)
- 3.3 List four (04) complications that can arise from this illness. (20 marks)
- 3.4 Briefly describe the preventive steps you would take in the management of this patient ? (50 marks)
- 4.
- 4.1 What are the presenting features of chronic constipation in children ? (20 marks)
- 4.2 List five (05) predisposing factors for chronic constipation. (20 marks)
- 4.3 Enumerate five (05) important physical findings that you would look for in a child presenting with chronic constipation. (20 marks)
- 4.4 Outline briefly the treatment of a 3 year old child with chronic constipation. (40 marks)

5. An eighteen month old baby girl is brought to a general practitioner with a history of lethargy and loss of appetite of 2 weeks duration. She is the first born of a 22 year old mother. She was born at 38 weeks with a birth weight of 1.7 kg. Her growth parameters are within normal limits. She is moderately pale with no jaundice. There was no lymphadenopathy. The liver was palpable 1cm below the costal margin and the spleen was just palpable. Initial investigations are as follows
WBC $8.6 \times 10^9/L$
N 38%
L 60%/
Hb 5.20 g/dL
Platelets $650 \times 10^9/L$
- 5.1 What is the most likely clinical diagnosis ? (10 marks)
- 5.2 List four (04) investigations that you would order to arrive at a definitive diagnosis and indicate the expected findings. (20 marks)
- 5.3 Outline the treatment and further management of this child. (40 marks)
- 5.4 List five (05) possible long term consequences of the condition mentioned in 5.1. (10 marks)
- 5.5 List the preventive public health measures that are in place in Sri Lanka to reduce the prevalence of this condition. (20 marks)
6. A mother brings her 10 year old daughter to the paediatric clinic with the complaint of poor concentration at school and frequently complaining of being tired. Her anthropometric measures are as follows.
Weight 63 Kg (above 97th centile)
Height 131 cm (10th centile)
- 6.1 Calculate the body mass index and its relevance to the clinical presentation. (15marks)
- 6.2 List five (05) relevant questions (with reasons) you would ask in the history. (25 marks)
- 6.3 List five (05) specific physical signs (with reasons) you would look for during physical examination. (25 marks)
- 6.4 List five (05) investigations you would request and indicate the reasons for performing them. (25 marks)
- 6.5 List five (05) other complications that this child could develop. (10 marks)