

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHILD HEALTH EXAMINATION –
NOVEMBER 2018

Date: 19th November 2018

Time: 9.00 a.m. – 11.30 a.m.

STRUCTURED ESSAY PAPER

Answer all five (5) questions.

Answer each question in a separate book.

1. An 18 month old girl presents to the paediatric clinic with inability to walk alone. Her other developmental domains are age appropriate.
 - 1.1 List four (04) possible causes. (20 marks)
 - 1.2 Give three (03) points in the history and three (03) points in the examination that will support each cause mentioned in 1.1. (50 marks)
 - 1.3 List three (3) investigations giving reasons that you would perform in this child to arrive at a diagnosis. (15 marks)
 - 1.4 Outline the management of one of the causes mentioned in 1.1. (15 marks)

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2. A baby was born at 37 weeks of gestation, with a birth weight of 2.5 Kg in a District Hospital. There were no antenatal complications. As there were no concerns regarding the baby, he was kept in a cot until the mother's episiotomy was sutured. Thirty (30) minutes after birth, the baby is noted to have grunting. Further examination reveals a respiratory rate of 60 breaths per minute, heart rate of 120 beats per minute and SaO₂ of 94% in room air. His cheeks are red and there is peripheral cyanosis.
- 2.1 State the most likely cause for the above symptoms. (15 marks)
 - 2.2 Write one bed side investigation, important in the management. (15 marks)
 - 2.3 Write the steps in the immediate management of this baby. (40 marks)
 - 2.4 State the policies required by the district hospital to prevent similar events occurring in the future. (30 marks)
3. A 9 year old boy is referred to your clinic for evaluation of polyuria and polydipsia of 6 weeks. His weight centile is at (-) 3SD.
- 3.1 Mention 3 differential diagnoses. (15 marks)
 - 3.2 Outline two important points of information in the history in each condition you mentioned in 3.1 in order to arrive at a diagnosis. (30 marks)
 - 3.3 List six (6) abnormal clinical signs you expect to see in this child. (30 marks)
 - 3.4 Briefly discuss how you would investigate this child. (25 marks)

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- 4.
- 4.1 Enumerate the clinical manifestations of vitamin A deficiency, giving one example for each system affected. (35 marks)
 - 4.2 State the indicators of vitamin A deficiency of a community. (15 marks)
 - 4.3 Outline the measures taken to prevent vitamin A deficiency in Sri Lanka. (30 marks)
 - 4.4 Enumerate the features of vitamin A toxicity. (20 marks)
5. A 9 month old baby presents with watery diarrhoea of two (2) days. He has not passed urine for the last 12 hours. Further evaluation reveals a drowsy baby with dry mucous membranes and rapid, low volume pulse. The investigations are as follows;
- Serum Creatinine $38\mu\text{mol/l}$ (18-35)
Serum Sodium 165mmol/l (135-145)
Serum Pottasium 4.2mmol/l (3.5-4.5)
- 5.1 State the complete diagnosis. (20 marks)
 - 5.2 Outline the steps in the management of this child. (40 marks)
 - 5.3 State four (4) complications of the condition mentioned in 5.1. (20 marks)
 - 5.4 List four (4) red flag signs of dehydration useful in evaluating a child in the community. (20 marks)