

2. A 6 year old boy is admitted with pain in the left hip of 1 day duration. He also complains of frequent headache with blurring of vision. His mother claims that he is a restless sleeper, that he snores loudly and his school work has deteriorated due to day time somnolence.

On examination his weight is 33kg ($> +3SD$) and height is 126 cm ($+2SD$ to $+3SD$) and BMI $> 95^{\text{th}}$ percentile. The skin at the back of his neck and axillae are dark and velvety in appearance. Funduscopy showed blurring of optic discs. Movements of left hip are restricted. The rest of the examination is normal.

- 2.1. Interpret his anthropometric measurements and give the diagnosis. (15 marks)
 - 2.2. Identify four (04) complications in this child from the information provided. (20 marks)
 - 2.3. Which complication would you attend to urgently? Give the reason. (15 marks)
 - 2.4. List one (01) investigation you would perform to assess each of the complications listed in 2.2. (20 marks)
 - 2.5. Outline the principles of managing the underlying problem you identified in 2.1. (30 marks)
3. A 2 year old boy is referred to the Medical Officer of Health (MOH) clinic by the Public Health Midwife with a history of delayed speech. Mother says that he was able to speak a few words at the age of one year and now he does not speak any meaningful words.

On examination child has got unintelligible speech and his neurological examination is normal.

- 3.1. What is your first step in the management of this child at the local clinic? (20 marks)
- 3.2. List three (03) differential diagnoses that you would consider. (15 marks)
- 3.3. Mention two (02) other clinical features of each condition that you mentioned in 3.2. which will help you to arrive at a diagnosis. (30 marks)
- 3.4. Outline the management of the three conditions you mentioned in 3.2. (35 marks)

4.
 - 4.1. Define constipation. (15 marks)
 - 4.2. List six (06) 'red flag' symptoms and/or signs suggestive of an organic cause for constipation. (30 marks)
 - 4.3. List five (05) investigations to exclude an underlying organic cause for constipation. (25 marks)
 - 4.4. How would you manage a 3 year old child with functional constipation? (30 marks)

5.
 - 5.1. Define the following terms -
 - 5.1.1. Severe Acute Malnutrition. (10 marks)
 - 5.1.2. Moderate Acute Malnutrition. (10 marks)
 - 5.2. Briefly discuss the following in a 2 year old child with Severe Acute Malnutrition.
 - 5.2.1. Admission criteria for inpatient care. (20 marks)
 - 5.2.2. Criteria for transferring the child from inpatient to outpatient care. (10 marks)
 - 5.2.3. Criteria for discharging the child from treatment. (10 marks)
 - 5.3. A comprehensive nutrition package of both adequate nutrition specific interventions coupled with nutrition sensitive programme had been introduced globally to combat malnutrition.
 - 5.3.1. List five (05) nutrition specific interventions. (20 marks)
 - 5.3.2. List five (05) nutrition sensitive interventions. (20 marks)