

Q1. Joseph is 2 years old. He was brought to your outpatient with 2 weeks history of swollen feet, peeling of the skin with exudation like burns, refusal to feed and loose stools. On examination he is apathetic and weighs 6.5kg.

- a) What is the most likely diagnosis? [1 mark]
- b) What are the complications in this condition? [2 marks]
- c) How will you treat the child on the first day? [7 marks]

Q2. Baby Margaret is 14 days old. She presents to you with history of refusal to feed, abnormal movements and yellowness of the skin and mucous membranes for 4 days. Positive findings on examination include; mild jaundice, apnoeic episodes, jerking and vertical deviation of eyes and abnormal neonatal reflexes. Temperature is 38.2°C, Resp. Rate is 70/minute [regular], grunting and severe chest wall in drawing. The chest is otherwise clear, heart sounds normal and there's a palpable spleen [2cm below the costal margin]. The weight is 3kg.

- a) List the three main differential diagnoses. [3 marks]
- b) Give only two most beneficial investigations in this child. [2 marks]
- c) Write a comprehensive treatment sheet for this child, addressing only the specific management on admission. [15 marks]

Q3. In a child presenting with a history of cough, vomiting and diarrhoea, outline the relevant aspects of history and physical examination you will take in order to arrive at a diagnosis. [10 marks]

- a) List five organisms commonly associated with diarrhoeal disease in under-fives. [2 ½ marks]
- b) Discuss the management of a 10kg, 1 year old baby with severe dehydration. [7 ½ marks]

Q5. Outline the treatment of a child with rheumatic fever presenting with arthritis and carditis but without cardiomegaly. [10 marks]

- a) Define pneumonia and give the top three bacterial causes [2 ½ marks]
- b) Explain the classification of pneumonia severity in under fives [7 ½ marks]

- a) Enumerate any ten (10) causes of neonatal seizures [5 marks]
- b) What would be your plan of treatment for a 2 weeks old neonate with seizures? The weight is 3.5 kg. [5 marks]

Q8. Differentiate nephritic syndrome from acute glomerulo-nephritis [10 marks]

Q9. In table form, describe the primary immunization as per the KEPI schedule giving the route of administration, dosage and side effects. [10 marks]

Q10. In brief point form, explain the steps of carrying out a comprehensive examination of the cardio-vascular system in a 10-year-old child. [10 marks]

Handwritten calculations and notes:

$$\begin{array}{r} 32.5 \\ 5 \\ \hline 37.5 \end{array}$$

$$\begin{array}{r} 5.5 \\ 5 \\ \hline 10.5 \end{array}$$

$$\begin{array}{r} 37.5 \\ 5 \\ \hline 42.5 \end{array}$$

