



**UNIVERSITY OF JAFFNA, SRI LANKA**  
**FINAL EXAMINATION FOR MEDICAL DEGREES–May 2014**  
**PAEDIATRICS Paper II**

Date: 07.05.2014.

Time: 03 hours

ANSWER ALL THE **SIX (6)** QUESTIONS

Answer each question in separate answer book

- 1            A 2 year old girl was admitted with fever of two weeks duration and a generalized rash. The rash was erythematous and non-pruritic. On examination the growth was adequate, she was not pale and on examination of the abdomen there she had a hepatomegaly of 3cm and splenomegaly of 2 cm.
- 1.1 List five (5) possible causes for this presentation ( 20 Marks)
- 1.2 What other clinical features will you look for in the history and examination to arrive at a diagnosis ( 20Marks)
- 1.3 List the investigations you will order and the expected findings to arrive at the diagnosis ( 20 Marks)
- 1.4 She was initially treated with broad spectrum antibiotics for 2 weeks but the fever continued. On the 12<sup>th</sup> day onwards she complained of joint swelling in the 2<sup>nd</sup> and 3<sup>rd</sup> metacarpophalangeal joints. The echocardiography showed a mild pericardial effusion.  
What is the most likely diagnosis? (20 marks)
- 1.5 Describe the management of the condition mentioned in 1.4 (20 marks)
- 2            A 10 year old girl presented with a history of vomiting and abdominal pain of 2 days. On examination she was drowsy and severely dehydrated. The respiratory rate was 38/minute and the heart rate was 98/minute. Her weight was 20kg. An initial bolus of 10ml/kg was given on arrival.  
Basic investigations were: WBC 5500, N60%, L40%, Haemoglobin 11g/dl, Platelets 165,000. Blood gas done showed pH 7.29, PO<sub>2</sub> 89mmHg, PCO<sub>2</sub> 28mmHg, HCO<sub>3</sub> -12, Blood sugar 16mmol/l
- 2.1 Describe the fluid management of this child for the next 48 hours mentioning the type of fluids to be used ( 20Marks)
- 2.2 Describe the rest of the management of this child ( 15Marks)
- 2.3 List the complications expected during the acute management ( 15Marks)
- 2.4 The child was successfully managed in the ward and discharged on day 6 of admission. Two weeks later she was readmitted to the emergency unit (EU) at 4am with a generalized convulsion. Her blood sugar at that time was 1.2mmol/l  
Describe the management of this child in EU ( 20Marks)
- 2.5 List the possible causes for the above presentation mentioned in 2.4 and the management (30 Marks)

- 3 Two (2) day old baby is admitted to the emergency unit following 2 episodes of convulsions. The baby was previously well and active. He was born at home at term and the birth weight was 2.7kg. The baby cried immediately after birth and exclusive breast feeding was commenced. The mother is a patient with epilepsy and follows regular clinic.
- 3.1 List five(5) possible causes for neonatal convulsions (20Marks)
- 3.2 What other information will you obtain in the history and examination to arrive at a diagnosis (20Marks)
- 3.3 The basic Investigations showed: Hb 9g/dl, WBC 6000, Platelets 160,000, CRP<6g/dl, Sodium 138mmol/l, Potassium 3.6mmol/l, BT 2minutes, PT 32secs, INR 2.3, APTT 45sec (25-35secs)  
What is the most likely diagnosis? (20Marks)
- 3.4 Describe the management of this baby (20Marks)
- 3.5 What steps should have been taken to prevent this condition? (20 Marks)
- 4 11 year old girl is admitted to the paediatric ward following an episode of faint. She has had four (4) similar episodes in the past.
- 4.1 List five (5) possible causes of faint in a child ( 15 Marks)
- 4.2 What information will you obtain from the history and examination to arrive at a diagnosis? (30 Marks)
- 4.3 List the investigations you will order giving reasons ( 25 Marks)
- 4.4 How will you manage this patient (30 Marks)
- 5 3 year old child is brought to the paediatric clinic as he has **not** developed any meaningful words.
- 5.1 What information will you obtain in the history and examination to arrive at a diagnosis? (30Marks)
- 5.2 Describe the methods used to assess hearing in children (30 Marks)
- 5.3 During the clinic visit you observe the child and he demonstrates poor eye contact and started spinning the paper weight.  
What is the most likely diagnosis? (10 Marks)
- 5.4 Describe the management of the condition mentioned in 5.3 (30 Marks)
- 6 Describe the **dietary advice** you will give in the clinical situations mentioned below
- 6.1 18 month old whose weight for height is between -2SD and -3SD (30 Marks)
- 6.2 8 year old boy whose BMI is above the 98<sup>th</sup> centile (40 Marks)
- 6.3 3 year old who is diagnosed with nephrotic syndrome (30 Marks)