

UNIVERSITY OF JAFFNA, SRI LANKA
FINAL EXAMINATION FOR MEDICAL DEGREES—November 2015
PAEDIATRICS Paper II

Date: 26.11.2011.

Time: 03 hours

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

Answer each question in separate answer book



- 1 Two year old girl is admitted to the paediatric ward with fever and cough of one week duration. She was treated at the outpatient department prior to the admission for 3 days for which the fever did not subside. On examination she was ill, fever of 40°C and the respiratory rate was 65/minute. Her weight on admission was 8kg.
- 1.1 List the possible differential diagnosis (10 Marks)
- 1.2 What other clinical features will you elicit in the history and examination to arrive at a diagnosis? (20Marks)
- 1.3 List the investigations you will order mentioning the expected findings (20 Marks)
- 1.4 List the possible organisms that can give rise to this clinical picture (20 Marks)
- 1.5 Mention the empirical antibiotic of choice for this child (05 Marks)
- 1.6 She did not respond to the antibiotics at 72 hours of the treatment. Mention the causes of poor response and indicate the management plan for this child at 72 hours. (20 Marks)
- 1.7 In the past she was treated for meningitis at the age of one year and osteomyelitis at the age of 18 months. List the possible causes for the underlying condition (10 Marks)
- 2 You are called to attend a delivery of a primi gravida at term as the liquor was meconium stained. Baby was delivered floppy and there was no spontaneous respiration.
- 2.1 Write the steps in resuscitation of this baby (30 Marks)
- 2.2 The baby was successfully resuscitated and transferred to the neonatal intensive care. Two hours later the baby had a generalized convulsion. Describe the management of this baby (20 Marks)
- 2.3 List the neuro-protective measures you will take in this baby (10 Marks)
- 2.4 List the other complications you will look for in the next few days in the Neonatal unit (10Marks)
- 2.5 Mention the clinical and laboratory parameters you will monitor in this baby in anticipation of the complications mentioned in 2.4 (20 Marks)
- 2.6 Describe the long term management of this baby (10 Marks)
- 3 A four (4) year old child was found by the grandmother cyanosed and unresponsive in the garden. He was brought to the emergency unit and underwent extensive resuscitation.
- 3.1 How will you estimate the following in the emergency department

- 3.1.1 Weight of the child
- 3.1.2 Energy for defibrillation (in Joules)
- 3.1.3 Volume and type of the fluid bolus
- 3.1.4 Volume of glucose bolus for hypoglycaemia
- 3.1.5 Dose and route of Adrenaline (10Marks)
- 3.2 List five (5) possible causes for this child's presentation (15Marks)
- 3.4 Outline the initial management at the emergency department (30 marks)
- 3.5 What information will you obtain from the history, examination and investigation to arrive at a diagnosis (45 Marks)
- 4
- 4.1 Define the following terms
- 4.1.1 Nocturnal enuresis (10 Marks)
- 4.1.2 Diurnal enuresis (10Marks)
- 4.2 A 10 year old boy presents with diurnal enuresis. What further information will you obtain from the history and examination to arrive at a diagnosis? (30 Marks)
- 4.3 How will you investigate this child mentioned in 4.2 (20 Marks)
- 4.4 Briefly describe the management of primary nocturnal enuresis (30 Marks)
- 5
- A 3 year old emaciated boy was brought into emergency department following an afebrile convulsion. The mother is a single parent and lives alone with three other children. She also tells that the child has had a similar seizure at home previously.
- 5.1 List five (5) possible causes for this presentation (15Marks)
- 5.2 On further inquiry she says the child still breast feeds. She also said that the child has not started to walk yet. What other information in the history will you obtain to come to a diagnosis? (20 Marks)
- 5.3 On examination the weight was $<-3SD$ and Height was on $-3SD$ with the OFC on the 50th centile. The child also had a widely open anterior fontanelle and Harrison's sulcus. What is the most likely complete diagnosis? (15 Marks)
- 5.4 List the investigations you will order giving reasons (20 Marks)
- 5.5 How will you manage this child (30 Marks)
- 6
- Describe the long term management of the following clinical conditions
- 6.1 A 11 year old girl with congenital adrenal hyperplasia (30 Marks)
- 6.2 4 year old boy with Thalasaemia major (30 Marks)
- 6.3 9 year old boy diagnosed with insulin dependent diabetes mellitus (40 Marks)