

UNIVERSITY OF JAFFNA, SRI LANKA
FINAL EXAMINATION FOR MEDICAL DEGREES - May 2016
PAEDIATRICS Paper II



Date: 04.05.2016.

Time: 03 hours

ANSWER ALL THE SIX (6) QUESTIONS

Answer each question in separate answer book

- 1 10 months old boy is admitted to the paediatric casualty ward with the history of high grade fever of 2 days duration and irritability.
 - 1.1 List five (5) possible causes for this presentation (10 Marks)
 - 1.2 List the clinical features you will look for in the history and examination to arrive at a diagnosis (20Marks)
 - 1.3 He was suspected to have meningitis and commenced on empirical antibiotics. List the possible organisms that causes meningitis in this age group (10 Marks)
 - 1.4 You are the house officer and the consultant requested you to perform a lumbar puncture in this child.
What clinical features will you look for to exclude the contraindications to perform the lumbar puncture? (10 Marks)
 - 1.5 He developed a convulsion on day two of admission.
Describe the management on day two (20Marks)
 - 1.6 Describe the short term and long term complications the baby can develop following this condition (30 Marks)

- 2 A 3 days old baby is admitted to the emergency department with a history of recurrent episodes of significant apnoea of one day duration. He was delivered at home to a 17 years old mother at 35 weeks of gestation. The birth weight was 1.7kg
 - 2.1 Define the term significant apnoea (15Marks)
 - 2.2 List the possible causes of apnoea and give the most possible cause of apnoea in this baby (20Marks)
 - 2.3 What other clinical features will you look to arrive at a diagnosis in this baby? (20 Marks)
 - 2.4 List the investigations you will request and the expected findings to arrive at the diagnosis (20Marks)
 - 2.5 How will you manage this baby (25 Marks)

- 3 Write the appropriate **fluid management** in the clinical situations mentioned below
- 3.1 3 year old presented with fever of 3 days and drowsy. The heart rate was 190/minute, CRFT 4 sec and blood pressure was unrecordable.
Weight 10kg (30 Marks)
- 3.2 5 year old girl with diabetes mellitus presented with vomiting, and abdominal pain of one day. The child was mildly dehydrated. The blood sugar was 15mmol/l, Arterial blood gas pH7.28, Bicarbonate (-)15mmol/l, Urine ketones +++ Weight 20kg (40Marks)
- 3.3 4 year old with diarrhoea and vomiting with reduced urine output. He has sunken eyes, drinks eagerly and appears well
Weight 15kg (30Marks)
- 4 4 year old child is seen at the paediatric clinic for constipation
- 4.1 List the possible causes of constipation (20 Marks)
- 4.2 List the "red flag" symptoms and signs of constipation (40Marks)
- 4.3 History and examination showed no red flag signs
Describe the management of this child (40 Marks)
- 5 An 8 year old boy is admitted following 3 day history of fever and passing red colour urine. He has had some vague abdominal pain and occasionally has complained of back pain which radiated to the groin in few occasions.
- 5.1 List five (5) possible causes for this presentation. (15Marks)
- 5.2 What other features will you obtain in the history and examination to arrive at a diagnosis? (20 Marks)
- 5.3 Preliminary investigations were done and the urine full report shows RBS fields full, Pus cells 20-25/HPF, Protein 2+, Crystals of calcium oxalate were seen.
List the other investigations you will order giving reasons (25 Marks)
- 5.4 On further inquiry his father also had similar problems and underwent a surgery.
What is the most likely complete diagnosis? (10 Marks)
- 5.5 How will you manage this child's current problem and prevent further episodes? (30 Marks)
- 6 What **advice** will you give the following clinical situations on discharge?
- 6.1 3 year old treated for blood and mucous diarrhoea (30 Marks)
- 6.2 Preterm baby born at 28 weeks of gestation is discharged following 50 days in hospital (40 Marks)
- 6.3 10 year old obese child treated for cellulitis in the right foot. (30 Marks)