

UNIVERSITY OF JAFFNA, SRI LANKA
FINAL EXAMINATION FOR MEDICAL DEGREES—APRIL 2011
PEDIATRICS Paper II



Date: 06.04.2011.

Time: 03 hours

ANSWER ALL THE SIX QUESTIONS

Answer each **QUESTION** in separate answer book

1. A 5 year old boy was admitted with a history of generalised oedema of 6 days duration.
 - 1.1. List the causes of generalised oedema in this child. (15Marks)
 - 1.2. What further information will you obtain from the history and examination to arrive at a diagnosis (40Marks)
 - 1.3. List the investigations you will order and give the interpretation of the results. (15Marks)
 - 1.4. The early morning urine is 4+ positive for protein. How will you manage this patient? (30Marks)

2. An 11 year old boy was admitted with a history of cough, fever and head ache of 5 days duration. He also had repeated episodes of left sided focal seizures of one day duration. On examination his Glasgow coma scale was 6 and he was tachypnoeic. The chest radiography showed left sided pleural effusion.
 - 2.1. Mention 3 possible differential diagnosis (30 Marks)
 - 2.2. List and give reasons for the investigations you will order in this patient to arrive at a diagnosis (20 Marks)
 - 2.3. Discuss the management of this patient (50 Marks)

3. A 3 year old boy is brought to the paediatric unit by the mother with a history of prolonged bleeding from bitten tongue after a fall.
 - 3.1. List 5 possible causes for the prolonged bleeding (15 Marks)
 - 3.2. What information will you obtain from the history and examination to come to a conclusion (40 Marks)
 - 3.3. Basic investigations were done and the bleeding time was 2 ½ minutes and clotting time was 22 minutes. How will you manage this patient? (20 Marks)
 - 3.4. List the further investigations you will order giving reasons (25 Marks)

4. Vinoth, a six month old baby is admitted to the Emergency Treatment Unit with a 3 day history of diarrhoea and vomiting. There is no blood in the stools. His mother reports that he has fever and refuses to feed. On examination he is lethargic. The respiratory rate was 52/minute.
- 4.1. How will you assess the level of hydration in this child (20 Marks)
- 4.2. Vinoth is confirmed to have severe dehydration. Basic blood tests were done and the results are given below:
- | | |
|------------------|-------------|
| Serum sodium- | 159 mmol/l, |
| Serum potassium- | 2.1 mmol/l, |
| blood urea - | 18 mmol/l |
- The blood gas report is as follows:
- | | |
|-----------------------------|------------|
| pH 7.19, PCo ₂ - | 20mmHg, |
| Bicarbonate- | 6.5mmol/l, |
| Base excess- | -18mmol/l |
- List the abnormalities shown in the above reports (10 Marks)
- 4.3. Vinoth has another large vomit and loose stools. You are concerned that he has features of shock. What are the features of shock? (10 Marks)
- 4.4. How will you manage the shock? How will you rehydrate this patient? (25 Marks)
- 4.5. What will you monitor in this patient (10 Marks)
- 4.6. What advice will you give the mother prior to discharge to prevent complicated episodes of diarrhoea in the future? (25 Marks)
5. A 30 year old mother with gestational diabetes mellitus undergoes emergency caesarean section for poor CTG. A baby weighing 4.2 kg is delivered with no respiratory effort, floppy and having a heart rate of 80/minute.
- 5.1. Describe the steps in resuscitating this baby (30 Marks)
- 5.2. You successfully resuscitated the baby and decided to take the baby to the neonatal unit for further management. Describe the management of this baby in the unit. (20 Marks)
- 5.3. On the 2nd day of life the baby develops a generalised tonic clonic seizure lasting 5 minutes. List 5 possible causes for the seizures in this baby (20 Marks)
- 5.4. Describe the management of this baby on day 2 (30 Marks)
6. Describe the management of the following clinical situations:
- 6.1. A 3 year old girl with quadriplegic cerebral palsy having feeding problems (30 Marks)
- 6.2. A 4 year old boy who has delayed speech (40 Marks)
- 6.3. A 9 year old girl who is diagnosed to have migraine (30 Marks)