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UNIVERSITY OF JAFFNA, SRI LANKA
FINAL EXAMINATION FOR MEDICAL DEGREES (1ST)-MARCH 2022
ACADEMIC YEAR 2014/2015
Paediatrics - Paper II

Date: 15.03.2022

Time: 03 hours (01.30 pm – 4.30 pm)

Answer all six questions

INDEX NO

Question Number 1

You are called from post nantal ward to see a 2 day old baby who is having respiratory distress for the last 4 hours. It was an uncomplicated term vaginal delivery to a teenage primi mother who had no regular clinic follow up.

1.1. List 5 common causes of respiratory distress in a term baby (15 Marks)

1.2. List 3 information you will obtain from the history to differentiate the above-mentioned causes (15 marks)

1.3. He was commenced on nasal prone oxygen but the saturation remained around 76% with oxygen.
What is the most likely underlying cause for this presentation? (15 Marks)



1.4. List 5 clinical features you will look to support your diagnosis mentioned in 1.3 (20 marks)

1.5. Indicate one investigation you will request to confirm your diagnosis (10 Marks)

1.6. Outline the management plan of this baby (25 Marks)



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Question Number 2

An 18 month old baby boy presented to Accident and Emergency department(A&E) with fever and vomiting of 1 day duration. On arrival to the A& E he developed a generalised tonic clonic convulsion.

2.1.List 4 possible causes for convulsion in this child (20 marks)

2.2. How will you manage the convulsion in the A& E (25 Marks)



2.3. The capillary blood sugar was 2.2 mmol/l. List the steps in the management of this problem. (15 marks)

2.4. On further assessment he was found to have cold extremities, reduced skin turgor, thready pulse and the blood pressure is 80/50 mmHg. Outline the fluid management for the next 24 hours (25 marks)



2.5. List 5 investigations you will request in this child giving reason.

(15 marks)



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Question Number 3

An 8 year old boy admitted with the history of fever for 8 days duration

3.1 Define fever of unknown origin (5 Marks)

3.2 List 3 non-infectious causes for fever of unknown origin in children (9 Marks)

3.3 In addition to the fever he is also having anorexia, vomiting and abdominal pain for the last 3 days. He had loose stools in the initial period and was treated by a general practitioner for which the loose stools settled but the fever persisted.

List 3 differential diagnosis for the above presentation (9 marks)



3.4 Examination of the child revealed an ill child with a temperature of 38.6 C. His pulse rate is 62/min with good volume and there is abdominal fullness with liver palpable 3 cm below costal margin and a splenomegaly of 2 cm.

What is the most likely diagnosis?

(12 Marks)

3.5 List 5 investigations you will request in this child? Give the expected findings (25 marks)

3.6 Outline the management of this child?

(25 Marks)



3.7 Indicate 5 complications the child can develop due to the most likely diagnosis (15marks)



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Question Number 4

Paediatric urinary tract infections are common. About 2% of males and 7% of females will have at least one UTI by the age of 6 years.

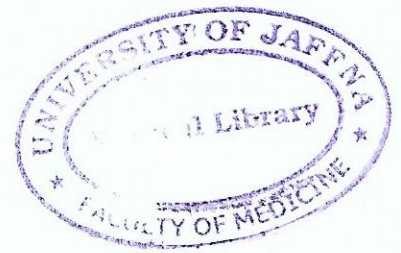
4.1 Mention the differences in clinical presentation of urinary tract infection in infants and older children (20 marks)

4.2 List the risk factors associated with urinary tract infection in children. (20 marks)



4.3 Outline briefly the diagnostic evaluation of paediatric urinary tract infection (30 marks)

4.4 Considering the risk factors outline the operative and non-operative management options for paediatric urinary tract infection (30 marks)





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Question Number 5

An 18-month-old is seen at the clinic for not walking. He sits with support, reaches for objects and transfers them. He is unable to put small beads into a cup. He recognizes the mother and says monosyllable words.

5.1 What is the developmental age of the child? (10 Marks)

5.2 List Five (5) information that you will need in the **history** to arrive at a diagnosis (30 Marks)

5.3 On examination the weight is +1SD, height is in the mean and OFC is in the -2SD. List three (3) features in the **General Examination** you will look to identify an aetiology (15 Marks)



5.4 On examination of the cardiovascular system the heart rate was 110minute BP 80/30mmHg, on auscultation of the precordium there is a murmur heard below the clavicle.

Mention the most likely cardiac lesion in this child (10 Marks)

5.5 Give two (2) possible causes for the underlying condition in this child (20 Marks)

5.6 Mention three (3) support systems that are available to manage this child in the community (15 Marks)



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Question Number 6

6.1 A 3-year-old girl is brought in by the police as the child was used for begging on the roads.

6.1.1. List **five (5) clinical information** you will obtain to exclude **physical abus** (15 Marks)

6.1.2. Name the **other types of abuse** you will anticipate in this child (20 Marks)



6.1.3. List three (3) **radiological findings** that will suggest physical abuse (15 Marks)

6.2. What actions will you take in the following clinical situations regarding vaccination

6.2.1. A 14-year-old child on immunosuppressants for a renal transplant wants to get the covid vaccine

(15 Marks)

6.2.2. A 2-month-old baby diagnosed with transposition of great arteries and needs the routine vaccination (15 Marks)

6.2.3. An 18-month-old child with multiple food allergies is due to get the routine vaccine (20 Marks)

