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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN CHILD HEALTH EXAMINATION –
OCTOBER 2015

Date : 6th October 2015

Time: 9.00 a.m. – 12.00 noon

STRUCTURED ESSAY PAPER

Answer all six questions.

Answer each question in a separate book.

1.

1.1 Baby Nimali was delivered at a period of gestation of 30 weeks by an emergency LSCS due to severe pregnancy induced hypertension. Her birth weight was 750g. She was discharged after 28 days of stay in the NICU. BCG vaccine was given on the day of discharge. Her weight on discharge was 1.35kg.

She was brought to the MOH clinic one month after discharge as instructed by the midwife. Her weight measured in the clinic was 2.3kg.

1.1.1 Plot her current weight on the chart provided and comment on the weight gain. (15 marks)

1.1.2 Write a prescription for the supplements needed for her. (15 marks)

1.1.3 Outline the vaccination plan for this baby during her first year of life. (10 marks)

1.1.4 What advice would you give regarding complementary feeding for this baby? (15 marks)

1.1.5 At the age of five months, mother is worried that Nimali is not turning over as her elder daughter had done at the same age. Mention what action is indicated giving reasons. (20 marks)

1.2 The public health mid wife has referred a 2 week old baby to your clinic for evaluation of his growth. His birth weight was 4.2 kg and present weight is 3.8 kg (on +1SD). Mother is 26 years old and has had gestational diabetes.

Briefly describe how you would handle this situation. (25 marks)

Contd...../2-

2. An eleven (11) year old boy presented with shortness of breath of one days duration. He has been having fever for the last five days with painful swelling of the left knee joint. He has had painful swelling of the right ankle joint which is now resolving.

His heart rate is 120/min. There is a pansystolic murmur over the apex. He has a 2 cm enlarged tender liver below the right costal margin.

2.1 Give the complete diagnosis. (15 marks)

2.2 List three investigations that are indicated in this child and give the expected findings. (15 marks)

2.3 Outline the management of this child. (50 marks)

2.4 Briefly outline the measures that can be taken to reduce the incidence of this condition. (20 marks)

3. A 12 year old boy with a weight of 67.5 kg (above 97th percentile) and a height of 150 cm (on 90th percentile) is referred for evaluation.

3.1 Mention the complete diagnosis giving reasons. (20 marks)

3.2 Outline the clinical assessment of this child. (40 marks)

3.3 List the investigations that are indicated. (15 marks)

3.4 Enumerate the principles of management of this child. (25 marks)

4.

4.1 Define perinatal mortality rate. (15 marks)

4.2 Discuss the value of perinatal mortality rate as an indicator of the efficiency of maternal and child health services of a country. (40 marks)

4.3 List the four (4) main contributory causes for perinatal mortality in Sri Lanka. (20 marks)

4.4 Outline five strategies adopted by Sri Lanka to reduce the perinatal mortality rate. (25 marks)

5. A six (6) year old boy from a poor socioeconomic background was admitted due to cough and low grade fever of four weeks duration. On further questioning he has lost weight over the past few months. He had been treated with several antibiotics and bronchodilators without improvement in spite of good compliance.

He has a nine year old brother and two year old sister. The 70 year old maternal grandfather who is living with them, has had a chronic cough.

5.1 What is the most likely diagnosis in this child? (10 marks)

5.2 List four (4) investigations that are indicated to confirm the diagnosis Given in 5.1 and give the expected findings. (30 marks)

5.3 Outline the principles of management. (45 marks)

5.4 Despite appropriate treatment for an adequate period of time, the child did not show any improvement. List three (3) possible reasons for the poor response to treatment. (15 marks)

6.

6.1 State the management plan in the following situations.

6.1.1 A twelve month old child is brought for routine immunization. He has had a febrile convulsion at 7 months of age. (20 marks)

6.1.2 A child is brought for Measles- Mumps- Rubella vaccination. He has had a fever with a rash at 8 months. A medical officer has said it could be measles. (20 marks)

6.1.3 A 6 year old child who was born in Italy has returned to Sri Lanka for schooling. Mother is requesting for the BCG vaccine for her child, as he has not received it. (20 marks)

6.1.4 A three year old on prednisolone 1mg/kg/ day for nephrotic syndrome for the past one month is brought for Measles- Mumps- Rubella vaccination. (20 marks)

6.2 List four indications for a medical officer of health to refer a child to a hospital for immunization. (20 marks)