

END OF TERM 3 SAQ YEAR 5 MBCHB

1. 10 year old boy with a history of a sore throat 3 weeks ago presents with fatigue, fever and joint pain. On examination, he has pain in his large joints and in addition you note that he is tachycardic and has a murmur heard best at the apex.

- a. What is the most likely diagnosis? (4 marks)
- b. Describe all the major criteria of this diagnosis. (5 marks)
- c. Describe all the minor criteria of this diagnosis. (5 marks)
- d. What investigations would you perform? (5 marks)
- e. What is your management plan? (6 marks)

2. A 4-year-old male presents to the PFC with fever, lethargy, decreased feeding and poor urine output. HR is 168bpm, temperature 39.5 C, RR 40bpm, BP 55/30 mmHg. O₂ saturations of 91% in room air. His examination is remarkable for cold extremities with a capillary refill of 4-5 secs. ABG shows a pH of 7.18, PCO₂ 38mmHg (5KPa), PO₂ 50mmHg (6.6KPa), HCO₃ 12mmol/L, BE -9. You suspect the diagnosis of sepsis with shock.

- a. What kind of shock is septic shock? (4 marks)
- b. What should your initial assessment of this patient involve? (8 marks)
- c. What is your interpretation of this blood gas and the most likely cause of the result? (4 marks)
- d. What would be your choice of antibiotics giving a reason? (4 marks)

You place him on oxygen and begin intravenous fluid resuscitation and inotropic support. There is improvement in the child's status.

- e. What factors would indicate improvement in the child's status? (5 marks)

3. A 4 year old child presents with periorbital puffiness and generalised body swelling. On examination has generalised oedema, ascites and BP 80/60 mmhg. Lab test: urinalysis: protein +++ serum albumin 18 g/l (normal 35-50 g/l)

- a. What is the most likely diagnosis? (3 marks)
- b. State the investigations you would order (10 marks)
- c. List the management plan for this child (12 marks)

4. A 3 day old baby is found to have yellowish discoloration of the body and eyes. He is otherwise well and breastfeeding well. His urine and stool are normal coloured
- What is the most likely diagnosis? (3 marks)
 - State the investigations that need to be done giving reasons for each (10 marks)
 - How would you manage this child (8 marks)
 - List the complications of this condition if not managed well? (4 marks)

