

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

POSTGRADUATE DIPLOMA IN TRANSFUSION MEDICINE
(OLD PROSPECTUS) EXAMINATION – FEBRUARY 2015

Date :- 9th February 2015

Time :- 1.00 p.m. – 4.00 p.m.

PAPER I

Answer all questions.

Answer each question in a separate book.

1. A 50 year old obese woman underwent a right hip replacement. Subcutaneous heparin was given for five days starting on the day prior to surgery. She required two units of red cells during surgery.

On the 10th post operative day, she developed a systemic petechial rash on both lower limbs and echymotic patches on abdomen.

Pre operative findings

Hb	10 g/dL
WBC	$11.2 \times 10^9/L$
Platelet	$225 \times 10^9/L$

Findings on 10th postoperative day

Temperature	37°C
Hb	9 g/dL
WBC	$12.5 \times 10^9/L$
Platelet	$14 \times 10^9/L$
PT, APTT, TT	Normal

- 1.1. What is the most likely diagnosis? (20 marks)
- 1.2. How did you arrive at the diagnosis given in 1.1. (30 marks)
- 1.3. What advice would you give the surgeon regarding the transfusion management of this patient? (50 marks)

Contd..../2-

2. A medical officer managing a two week old sick neonate contacts you to inform that a close relative of the patient is insisting on donating blood for the neonate.

What advice would you give him? (100 marks)

3. A patient receiving a blood transfusion has developed fever.

3.1. What are the likely causes? (20 marks)

3.2. What will be your advice to the Medical officer looking after this patient regarding the management? (80 marks)

4. Write short notes on –

4.1. Direct anticoagulant test. (50 marks)

4.2. Nucleic Acid Testing (NAT) for HIV. (50 marks)

5.

5.1. What is a massive transfusion protocol (MTP)? (20 marks)

5.2. Outline a suitable MTP for your institution. (50 marks)

5.3. What are the advantages of a MTP? (30 marks)

Contd...../3-

6. A 28 year old male with severe haemophilia A admitted to casualty ward with massive psoas haematoma extending to the thigh.

His Hb is 5 g/dL.

He is in severe pain.

- 6.1. What further information and investigations would you require for further management? (50 marks)
- 6.2. Briefly outline the management of this patient. (50 marks)
7. A 6 month old baby admitted with severe anaemia was diagnosed to have β thalassaemia major.
- 7.1. Outline the transfusion management of this baby. (60 marks)
- 7.2. Briefly mention the possible complications of repeated transfusions. (40 marks)
8. A blood sample from a 45 year old woman was sent to you from a peripheral blood bank as they are unable to find cross matched compatible blood for transfusion. Her blood group is O Rh D positive and this was compatible with her historical records.
- 8.1. What are the possible causes? (40 marks)
- 8.2. Briefly outline how you would proceed to provide compatible blood for this patient. (60 marks)