## POSTGRADUATE INSTITUTE OF MEDICINE **UNIVERSITY OF COLOMBO**

# MD (TRANSFUSION MEDICINE) EXAMINATION – MARCH 2013

Date: 18th March 2013

Time: 1.00 p.m. - 4.00 p.m.

### PAPER I

Answer any five (05) questions. Answer each question in a separate book.

- 1. Discuss the key elements involved in pre-transfusion testing in the hospital blood bank.
  - What are the requirements to implement electronic cross-matching and what are the potential benefits and risks of this approach? (100 marks)
- 2. Describe the pathogenesis, diagnosis and transfusion management of β Thalassaemia major. (100 marks)
- 3. Briefly discuss the HLA system with particular reference to renal, liver and bone marrow transplantation. (100 marks)
- 4.
- 4.1 Define the meaning of emerging infection. Mention the features of an emerging infection that offers risk to blood safety.

(10 marks)

- 4.2 Outline the general measures that can be taken to reduce the risk of blood safety by emerging infections. (50 marks)
- 4.3 Give four examples of emerging infection that could risk the blood safety, for each example give specific measures. (40 marks)

Contd.../2-

- 5.1 Define anaphylaxis and indicate its frequency as a transfusion reaction. (5 marks)
  - 5.2 Describe the clinical features. (5 marks)
  - 5.3 Outline the pathogenesis of allergic transfusion reaction. (30 marks)
  - 5.4 Describe the laboratory tests required to diagnose and monitor allergic transfusion reaction. (30 marks)
  - 5.5 Give an account of preventive measures and treatment of allergic transfusion reaction. (30 marks)
- 6 Describe the haemostatic changes that can cause excessive bleeding during Coronary Artery Bypass Graft (CABG) surgery and during the post operative period. (100 marks)

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# POSTGRADUATE INSTITUTE OF MEDICINE UNIVERSITY OF COLOMBO

## MD (TRANSFUSION MEDICINE) EXAMINATION – MARCH 2013

Date: 19<sup>th</sup> March 2013

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**Time:** 9.00 a.m. - 12.00 noon

#### PAPER II

Answer any five (05) questions. Answer each question in a separate book.

- 1. What is Haemovigilance and what is the value of Haemovigilance
  - 1.2 Describe how you would set up and monitor a Haemovigilance scheme in an area where there are 50 hospitals with blood banks. (80 marks)
- 2. Give an account of management of anaemia with red cell transfusions in critically ill patients. (100 marks)
- 3. Fainting or feeling faint are common side effects of blood donation.
  - 3.1 What are the factors which may predispose a donor to feeling faint or fainting? (20 marks)
  - 3.2 What measures can be taken to reduce the risk of donors' feeling faint or fainting? (30 marks)
  - 3.3 How would you manage a severe faint with fitting, vomiting and incontinence? (25 marks)
  - 3.4 What is a 'late faint'? Describe the aetiology and management.

(25 marks)

(20 marks)

Contd.../2-

- 4. As a consultant in transfusion medicine, outline your actions in the following situations.
  - 4.1 A unit of red cells has been found to be partially frozen in a hospital stock fridge. (50 marks)
  - 4.2 Clinician complain that the Fresh Frozen Plasma is no longer clinically effective. (50 marks)
- 5. , 5.1 Describe the pharmacology of recombinant factor VIIa. (30 marks)
  - 5.2 Critically discuss the statement "Recombinant factor VIIa is a Universal Haemostatic Agent" (70 marks)
- 6.1 What is a Hospital Transfusion Committee (HTC)?

  Briefly describe the membership and key activities of Hospital

  Transfusion Committee. (20 marks)

6.

- 6.2 What measures can be taken to ensure effective performance of the Hospital Transfusion Committee? (40 marks)
- 6.3 What parameters can be used to monitor the operational effectiveness of a blood bank? (40 marks)