



The Royal College of **Pathologists**

Pathology: the science behind the cure

Part 1 examination

Haematology (Clinical Scientists): First paper

Tuesday 23rd March 2010

Candidates must answer ALL questions

Time allowed: 3 hours

1. Discuss the pathophysiology and laboratory diagnosis of paroxysmal nocturnal haemoglobinuria.
2. Critically evaluate the role of thrombophilia testing in the assessment and management of venous thromboembolism.
3. Describe and justify your recommendations for the investigation of a 50-year-old man who presents with tiredness and a sore mouth and is found to have the following blood profile:

WBC $3.2 \times 10^9/l$, HB 52 g/l, MCV 118fl, Platelets $65 \times 10^9/l$

4. Discuss transfusion support in the following:
 - I. acute massive blood loss
 - II. premature neonates
 - III. Myelodysplastic syndrome.



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Part 1 examination

Haematology Clinical Scientists: First paper

Tuesday 24 March 2009

Candidates must answer all FOUR questions

Time allowed: 3 hours

- 1 Outline and critically evaluate point of care testing in haematology. How would you ensure the safety and quality of such a service?
- 2 Discuss and critically evaluate the role of coagulation testing in the pre-operative assessment of bleeding risk.
- 3 Discuss the aetiology, pathogenesis and diagnosis of essential thrombocythaemia
- 4 Write short notes on:
 - a) The key elements of pre-transfusion testing in the hospital blood bank.
 - b) HbA₂ – measurement and interpretation of results
 - c) Laboratory diagnosis of malaria