Australian Institute of
Medical and Clinical Scientists (AIMS)

FELLOWSHIP EXAMINATION example paper

Name:

Candidate No:

HAEMATOLOGY

Module HAEM III

(Advanced Cellular Haematology)

INSTRUCTIONS TO CANDIDATE

Time allowed is three (3) hours

Answers should be written in the answer book provided, writing on the right-hand page only leaving the margin blank. The facing page may be used for rough work if desired

The examination consists of:

- 2 essay style questions; each question is worth 35 marks.
  (Allow approximately 30 mins each)
- 20 short answer questions; each question is worth 5 marks.

Time allowed for writing is three (3) hours. There is an additional initial reading time of 15 minutes during which notes only may be written on the examination paper but no writing in the examination answer books is permitted at this time.
Candidates may attempt either the essay questions or the short answer questions first.

No papers or books of any kind may be taken into the examination room. No electronic devices of any type* are to be taken in to or accessed in the examination room. A non-programmable calculator only is permitted.

*This includes, but is not restricted to: phones, iPads, iPods, eBook readers, MP3 players, memory sticks (flash drives) and WiFi enabled devices of all types.

THE EXAMINATION PAPER MAY NOT BE REMOVED FROM THE EXAMINATION ROOM

ESSAY ANSWER QUESTIONS

2 Questions - each question is worth 35 marks. Time allocated to each question should not exceed 35 minutes. All questions should be attempted

1. Discuss the current classification of myeloid neoplasms and acute leukaemia.

SHORT ANSWER QUESTIONS

20 Questions - each question is worth 5 marks. Time allocated to each question should not exceed 5 minutes. All questions should be attempted

1. Discuss the present strengths, weaknesses and future applications of automated digital imaging in Haematology.

2. What genetic/molecular feature is associated with each of the following haematological abnormalities/entities?
   a) Beta thalassemia major
   b) NHL
   c) ET
   d) HE
   e) MDS

3. Discuss the role of PML-RARa fusion protein in the diagnosis and management of leukaemia

4. Discuss the investigation of a patient with suspected HELLP.

5. Discuss the use of Malarial Parasite Rapid Test Kits as an adjunct to morphology in the diagnosis of Malaria, and some of the causes of false positive and negative results.

6. Briefly discuss the laboratory quantitation of HbS.

7. Discuss the investigation of a patient suspected of having G6PD.

8. What are the causes of lymphopenia and their prognostic significance?

9. Briefly discuss the development of normal haemopoietic cells found in the bone marrow.

END OF EXAMINATION