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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (PATHOLOGY) HAEMATOLOGY EXAMINATION – JULY 2015

Date: 27th July 2015

Time: 1.00 p.m. – 4.00 p.m.

Answer question **one** and **three** others.

Answer each question in a separate book.

All questions carry equal marks

PAPER I

1.
 - 1.1 Outline the causes of hemolytic disease of the foetus and new born (HDFN) and outline the management of HDFN in a “at risk pregnancy”. (40 marks)
 - 1.2 Discuss the use of anti D immunoglobulin in prevention of HDFN (60 marks)
2. A 29 - year old woman presented to the emergency department two weeks after a normal vaginal delivery. She was complaining of pain and swelling of her right lower limb which was confirmed as an extensive deep vein thrombosis (DVT) involving popliteal, femoral and external iliac veins. Her body mass index (BMI) was 31. On direct questioning she gave a history that her sister had an unprovoked DVT at the age of 20 years. Discuss the investigations and management (immediate and long term) of this patient. (100 marks)
3.
 - 3.1 Discuss quality assurance in the pre analytical phase of testing in haematology (50 marks)
 - 3.2 Discuss the use of alternative methods of Internal Quality Control (IQC) compared to commercial (IQC) material in haematology (50 marks)
4. Write short notes on
 - 4.1 “Double hit “ diffuse large B-cell lymphoma (30 marks)
 - 4.2 Late complications of Hodgkin lymphoma (30 marks)
 - 4.3 Prognostication of Acute Myeloid Leukaemia by genetic stratification (40 marks)
5. Discuss myelodysplastic syndrome vs myeloproliferative neoplasms in relation to morphological features, genetic and molecular abnormalities. (100 marks)

2015

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MD (PATHOLOGY) HAEMATOLOGY EXAMINATION – JULY 2015

Date: 28th July 2015

Time: 9.00 a.m. – 12.00 noon

Answer **four** question only.

Answer each question in a separate book.

All questions carry equal marks.

PAPER II

1. Discuss the causes and management of acute medical emergencies encountered in a patient with acute leukaemia at presentation. (100 marks)
2. Write short notes on
 - 2.1 Laboratory diagnosis of Hereditary Spherocytosis (30 marks)
 - 2.2 Congenital Dyserythropoietic Anaemia Type 11 (30 marks)
 - 2.3 Secondary iron overload (40 marks)
3. Discuss the causes, investigations and management of a neonate with thrombocytopenia. (100 marks)
4.
 - 4.1 Multiple myeloma is suspected in a 55 year old female who presents with chronic backache and high ESR. Discuss the investigations of this patient with a view to confirm the diagnosis and to decide on the treatment options. (60 marks)
 - 4.2 If myeloma is confirmed, briefly outline the management of this patient. (40 marks)
5. Discuss the pathophysiology, investigations and management of disseminated intravascular coagulopathy (DIC). (100 marks)