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2019 .

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

OPHTHALMOLOGY MODULE 1 EXAMINATION
JANUARY, 2019

Date: 27th January 2019

Time: 1.00 p.m. – 4.00 p.m.

STRUCTURED ESSAY PAPER

Answer all questions in Part A, B and C.

Answer **each** question in a separate answer book.

PART A (ANATOMY)

1.
 - 1.1 Describe the origin, course and relations of the left internal jugular vein (60%)
 - 1.2 What are the tributaries of left internal jugular vein? (10%)
 - 1.3 Describe the clinical importance of the internal and external jugular veins (30%)

2.
 - 2.1 Describe the Gross anatomy of the 7th cranial nerve. (70%)
 - 2.2 What are the functional components? (15%)
 - 2.3 Describe the clinical manifestations of nerve damage at the stylomastoid foramen. (15%)

PART B (PHYSIOLOGY)

3.
 - 3.1. Describe the physiological mechanisms involved in the process of haemostasis. (40%)
 - 3.2. Explain the process of oxygen and carbon dioxide carriage at the level of the tissues and the lung in a healthy adult. (60%)

- 4.
- 4.1. Describe the physiological mechanisms involved in the following:
- a. Odema of the ankles in a healthy woman during late pregnancy (50%)
 - b. Monitoring of the pupils and blood pressure in a patient suspected of having raised intra cranial pressure. (50%)

PART C (PATHOLOGY)

- 5.
- 5.1 Discuss the non metastatic effects of malignant tumours on the host. (70%)
- 5.2 Describe the pathological features of a malignant tumour which predict its prognosis. (30%)
6. Write short notes on
- 6.1 Type II Hypersensitivity reaction (40%)
 - 6.2 Pharmacological actions of Non Steroidal Anti Inflammatory Drugs (NSAIDs) (30%)
 - 6.3 Methicillin Resistant *Staphylococcus aureus* (MRSA) (30%)

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SELECTION EXAMINATION IN MD (OPHTHALMOLOGY)-
JANUARY 2020

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Answer all questions in Parts A, B and C.

Answer **each question in a separate answer book.**

PART A (ANATOMY)

1.
 - 1.1. Describe the course and distribution of the mandibular nerve and its branches. (70%)
 - 1.2. Explain the effects of mandibular nerve injury at the base of the skull. (30%)
2.
 - 2.1. Draw a labelled diagram of **ventral** surface of the brain stem. (25%)
 - 2.2. Describe the anatomy of the cross section of midbrain at inferior colliculi level. (50%)
 - 2.3. Explain the anatomical basis of clinical features in occlusion of posterior inferior cerebellar artery. (25%)

PART B (PHYSIOLOGY)

3.
 - 3.1. Explain the changes that occur in work of breathing in a patient with fibrosis of the lung. (50 %)
 - 3.2. Discuss the physiological basis of the changes that occur in the cardio respiratory systems during isotonic exercise. (50 %)

Contd.../2-

- 4.
- 4.1. Explain the functions of growth hormone and the physiological basis for the derangements observed in Acromegaly. (50 %)
- 4.2. Outline the functions of osmoreceptors and its function in regulating hyperosmolality of plasma. (50 %)

PART C (PATHOLOGY)

- 5.
- 5.1. Discuss the molecular basis of carcinogenesis. (60 %)
- 5.2. List the types of carcinogens giving two examples under each type.(20 %)
- 5.3. Describe briefly the different mechanisms of tumour spread. (20 %)

6.

Write short notes on

- 6.1. Different mechanisms which prevent autoimmunity in the human body. (40%)
- 6.2. Pathogenesis of secondary pulmonary tuberculosis. (40%)
- 6.3. Mechanisms of actions of Beta 2 receptor agonists. (20%)