

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MD (OBSTETRICS & GYNAECOLOGY)
JULY 2020

Date: 17th July 2020

Time: 1.30 p.m. – 4.30 p.m.

Answer all six (06) questions.

Answer each question in a separate answer book.

SHORT ANSWER QUESTIONS

1. Describe the anatomy of the ischioanal fossa (ischiorectal fossa) including its clinical significance. (100 marks)
2. Describe the synthesis and physiological functions of the two main hormones secreted by the posterior pituitary gland. (100 marks)

STRUCTURED ESSAY QUESTIONS

3. Angiogenesis.
 - 3.1. Explain the process of angiogenesis. (50 marks)
 - 3.2. Discuss the role of angiogenesis in tumour growth and metastasis. (30 marks)
 - 3.3. What are the clinical applications of angiogenesis in tumour management? (20 marks)
4. A 25-year-old woman who is 8 weeks pregnant, presents to the clinic. She has clinical features suggestive of rubella.
 - 4.1. Describe how the diagnosis is confirmed, explaining the immunological basis. (40 marks)
 - 4.2. List the serologic tests available to determine the immune status of the mother. (10 marks)
 - 4.3. Briefly outline the pathogenesis of congenital rubella syndrome. (30 marks)
 - 4.4. Describe the measures you would have taken to prevent congenital rubella syndrome. (20 marks)

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5. Human anticancer drugs.

5.1. List the five (5) main classes of anticancer drugs, naming a drug for each class. (20 marks)

5.2. Describe the mode of action of each class. (50 marks)

5.3. Explain the terms neoadjuvant therapy and combined chemotherapy indicating the benefits in the treatment of gynaecological cancer. (30 marks)

6. Electrosurgery is used in both open and laparoscopic surgery.

6.1. How does electrosurgery differ from electrocautery? (10 marks)

6.2. Describe the different tissue effects of electrosurgery. (40 marks)

6.3. Outline the differences between monopolar and bipolar electrosurgery. (20 marks)

6.4. Discuss the actions you would take to improve the safety of electrosurgery. (30 marks)