

MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OBSTETRICS & GYNAECOLOGY) DEGREE EXAMINATION – APRIL 2022

PAPER I

Friday, April 01, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays:

1. Describe the cardiovascular and hematological changes in pregnancy and explain the clinical significance of the same. Enumerate the clinical symptoms and signs to differentiate between the physiological changes from cardiac disease complicating pregnancy

(15 marks)

2. Describe the course of the ureter in the pelvis. Enumerate and identify the sites of likely injury during hysterectomy. Write the precautions to be taken to prevent injury during hysterectomy. Describe the signs which indicate likely ureteric injury.

(15 marks)

3. Write short notes on:

3A. Classify the Progesterones and describe its various role in Obstetrics

3B. Anatomy of the internal iliac artery and its clinical significance

3C. Functional ovarian cysts

3D. Etiopathogenesis of preeclampsia

3E. Physiology of lactation

3F. Iron metabolism in pregnancy and its clinical significance

3G. General principles for prescription of tocolytic agents

3H. Acute retention of urine in obstetrics and gynecology

3I. Lymphatic drainage of the uterus and its clinical significance

3J. Various etiologies of heavy menstrual bleeding in fibroids and its clinical significance

(7 marks × 10 = 70 marks)



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PAPER II

Saturday, April 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay Questions:**

1. Write Sapporo criteria for diagnosing Anti Phospholipid Antibody syndrome and discuss the role of antiphospholipid antibodies in adverse pregnancy outcome.

(15 marks)

2. Discuss diagnosis and management of fetal growth restriction.

(15 marks)

✍ **Short Essay Questions:**

3. Write briefly on:

3A. The method of clinical assessment of pelvis, management of primigravida in labor with borderline pelvis

3B. The complications of mono chronic twins and discuss the management of one of them

3C. The diagnosis and management of dysfunctional labor

3D. The phases of 2nd stage of labor and discuss the management of delayed 2nd stage

3E. The prevention of preterm labour

3F. The causes of jaundice in pregnancy and discuss the management of the same

3G. The role of instrumental delivery in modern obstetrics

3H. Current recommendations regarding immunization during pregnancy

3I. The management of shoulder dystocia

3J. Management of epilepsy in pregnancy

(7 marks × 10 = 70 marks)



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PAPER III

Monday, April 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essay Questions:

1. Discuss evaluation of oligospermia and write options for infertility management for the same couple.

(15 marks)

2. Critically analyse the indications, advantages and complications of hysterectomy done by different routes.

(15 marks)

3. Short Essay Questions:

3A. Discuss investigations and treatment of a 40 year old patient with menorrhagia and bulky uterus

3B. Discuss the management of Stage 1 epithelial ovarian cancer

3C. Discuss the recent concepts in approach to a patient with secondary amenorrhea

3D. Describe clinical features and discuss the management of cervical fibroids

3E. Write types, merits and demerits of progesterone only contraceptive methods

3F. Discuss the treatment of endometriosis in adolescent girls

3G. What are the risk factors for carcinoma endometrium? Describe the management of carcinoma endometrium III B

3H. Discuss the precipitating factors and conservative management geriatric incontinence

3I. Write briefly on surgical management of vulvar cancer

3J. Discuss clinical features and management of premenstrual syndrome

(7 marks × 10 = 70 marks)



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PAPER IV

Tuesday, April 05, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long essays:**

1. What are the differences between Small for Gestational Age (SGA) Fetus and Fetal Growth Restriction (FGR). Write differences between early and late onset FGR. Write in brief about recent ISUOG practice guidelines on the diagnosis and management of SGA & FGR fetuses.

(15 marks)

2. Write in brief about HPV induced oncogenesis. Discuss important aspects of Screening, Testing, and Prevention of Human Papilloma Virus.

(15 marks)

3. **Write short notes on:**

3A. Recent updates on vaccination in pregnancy

3B. COVID-19 infection in pregnancy – susceptibility, maternal/fetal outcomes

3C. Intrapartum Fetal Compromise - prediction, detection, and management

3D. Recent advances in prenatal genetic testing – beyond karyotype

3E. Recurrent vaginal discharge – differential diagnosis, approach to diagnosis and management

3F. Surgical Site Infections in Obstetrics and Gynecology

3G. Long term health risks among women with subfertility

3H. High vaginal encirclage and transabdominal cervical encirelage

3I. Robotic surgery in gynecological Oncology

3J. Assessment systems to document severity of endometriosis

(7 marks × 10 = 70 marks)

