THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MS 0524] **MAY 2024** **Sub. Code: 4017**

M.S. DEGREE EXAMINATION

BRANCH VI – OBSTETRICS AND GYNAECOLOGY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 224017

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Anatomy of fallopian tube and its clinical importance.
2. Histology of vagina and its clinical significance.
3. Supports of uterus and describe in detail about the pelvic diaphragm and its importance in Obstetrics and Gynaecology.
4. Mullerian anomalies.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Iron metabolism.
2. Hematological changes during pregnancy.
3. Physiology of Micturition and its practical significance.
4. Physiology of labour.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. Causes and management of Metabolic Acidosis.
2. Triple test.
3. Antioxidants in Obstetrics.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Calcium Channel Blockers.
2. HAART.
3. Role of chemotherapy in Carcinoma Cervix.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Krukenberg's tumor.
2. Red degeneration of Fibroid.
3. Chorionic villus sampling.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. TORCH infections.
2. Primary Genital Tuberculosis.
3. Principles of infection control.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MS 1224] **DECEMBER 2024** **Sub. Code: 4017**

(OCTOBER 2024 EXAM SESSION)

M.S. DEGREE EXAMINATION

OBSTETRICS AND GYNAECOLOGY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 224017

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Ischial spines and its importance.
2. Changes in fetal circulation after birth.
3. Endopelvic fascia.
4. Bartholin's gland.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Inhibin.
2. Intrinsic pathway of coagulation.
3. Hypothalamo pituitary ovarian axis.
4. Adrenarche and pubarche.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. NIPT.
2. Bartter syndrome in pregnancy.
3. Steroidogenesis.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Low dose aspirin.
2. Emergency contraception.
3. Antithrombotic in pregnancy.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Causes of vaginal cysts and describe the Pathology.
2. Circumvallate placenta.
3. Labial adhesions.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Group B streptococcus infection in pregnancy.
2. Vaccination during pregnancy.
3. CD 4 count.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MS 0525] **MAY 2025** **Sub. Code: 4017**

M.S. DEGREE EXAMINATION

OBSTETRICS AND GYNAECOLOGY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 224017

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Development of female genital tract.
2. Foetal circulation.
3. Course and branch of Internal iliac artery.
4. Changes in the cervix before and during labour.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Physiology of lactation.
2. Carbohydrate metabolism in pregnancy.
3. Cardio vascular changes in pregnancy.
4. Etiopathogenesis of PCOS.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. ELISA in obstetrics and gynecology.
2. Role of folic acid in neural tube defect prevention.
3. Hormonal change in menopause.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. GnRh Antagonists.
2. Mechanism of action of tocolytics.
3. Drugs and regimens for Hormone Replacement Therapy (HRT).

V. PATHOLOGY: **(3 x 5 = 15)**

1. Pathology of placental abruption.
2. Histopathological changes in endometrium in abnormal uterine bleeding.
3. Borderline ovarian tumor.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Definition and diagnosis of asymptomatic bacteriuria in pregnancy.
2. Chorioamnionitis.
3. Septic shock and treatment.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MS 1025] **OCTOBER 2025** **Sub. Code: 4017**

M.S. DEGREE EXAMINATION

OBSTETRICS AND GYNAECOLOGY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 224017

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Lymphatic drainage of ovary, uterus, vagina and vulva.
2. Graafian follicle.
3. Pelvic ureter.
4. Gartner's cyst.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Platelet in pregnancy.
2. Physiology of twinning.
3. Physiological changes of Thyroid hormones and its significance in pregnancy.
4. Respiratory changes in pregnancy.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. Surfactant.
2. Iron metabolism.
3. Nutritional requirement in pregnancy and lactation.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Selective ostrogen receptor modulators.
2. Neoadjuvant chemotherapy in ovarian cancer.
3. Ovulation Induction Protocols.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Premalignant lesions of vulva.
2. Frozen section.
3. Immunoprophylaxis of Hepatitis B infection.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Discuss the organisms causing septic shock.
2. Maternal immune response.
3. Microorganisms in PROM and ways to prevent it.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MS 0526] **MAY 2026** **Sub. Code: 4017**

M.S. DEGREE EXAMINATION

OBSTETRICS AND GYNAECOLOGY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 224017

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Describe the course of ureter and its surgical importance.
2. Corpus luteum.
3. Development of fetus and placenta.
4. With the help of a diagram, describe pelvic diaphragm.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Describe the endocrine control of menstrual cycle.
2. Coagulation cascade.
3. Neuro endocrine changes during puberty.
4. Spermatogenesis.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. Jaundice in newborn.
2. Biochemical markers used in ovarian reserve assessment.
3. Screening for gestational diabetes.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Pharmacokinetics of various Oxytocics and its side effects.
2. Selective Progesterone Receptor Modulator (SPRM) in fibroid management.
3. Methotrexate in obstetrics and gynecology.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Frozen section.
2. Transformation zone.
3. Pathology of vesicular mole and its importance.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Human papilloma virus.
2. Normal vaginal flora – describe. What is Amsel's criteria?
3. Premalignant lesions of vulva.

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