

(LC 2241)

APRIL 2013

Sub. Code: 2241

**M.S. DEGREE EXAMINATION
BRANCH VI –OBSTETRICS AND GYNAECOLOGY**

APPLIED BASIC SCIENCES IN OBSTETRICS & GYNAECOLOGY

Q.P. Code : 222241

Time: Three Hours

Maximum: 100 marks

Write notes on:

I. ANATOMY (4X5=20)

1. Describe the course of pelvic ureter & its surgical importance.
2. Bartholin's gland.
3. Draw diagram & explain lymphatic drainage of vulva.
4. Course & branches of internal iliac artery.

II. PHYSIOLOGY (4X5=20)

1. Normal Puberty
2. Inhibin
3. Role of prolactin in pregnancy
4. Haematological changes in pregnancy

III. BIO-CHEMISTRY (3X5=15)

1. Triple test
2. Tumour markers
3. Weight gain during pregnancy

IV. PHARMACOLOGY (3X5=15)

1. Carboplatin
2. RU 486
3. Selective oestrogen receptor modulators

V. MICROBIOLOGY (3X5=15)

1. Strategies to prevent perinatal HIV transmission
2. Chlamydial infection
3. Discuss the organisms causing septic shock.

VI. PATHOLOGY (3X5=15)

1. Pathology of hydatidiform mole.
2. Chorionic villus sampling.
3. Ovarian pregnancy.

[LD 2241]

OCTOBER 2013

Sub. Code: 2241

**M.S. DEGREE EXAMINATION
OBSTETRICS AND GYNAECOLOGY**

APPLIED BASIC SCIENCES IN OBSTETRICS & GYNAECOLOGY

Q.P. Code : 222241

Time: Three Hours

Maximum: 100 marks

Write notes on:

I. ANATOMY (4 x 5 = 20)

1. Pelvic Diaphragm and its significance.
2. Development of Mullerian Duct.
3. Anal Canal.
4. Uterine & vaginal blood supply.

II. PHYSIOLOGY (4 x 5 = 20)

1. Physiology of onset of labour.
2. Cardiovascular changes in Pregnancy.
3. Physiology of lactation.
4. Pituitary - Ovarian –Endometrial Cycle.

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

1. Tumour markers in Epithelial tumours of ovary.
2. Surfactants.
3. Bilirubin metabolism.

IV. PHARMACOLOGY (3 x 5 = 15)

1. Oxytocin.
2. HCG (Human Chorionic Gonadotrophin).
3. Zidovudine.

V. MICROBIOLOGY (3 x 5 = 15)

1. Maternal Immune response.
2. Breast abscess.
3. Principles of Antimicrobial Prophylaxis.

VI. PATHOLOGY (3 x 5 = 15)

1. Cervical cytology.
2. Endometrial Premalignant lesions.
3. Pathogenesis of Chronic Pelvic Pain.

**M.S. DEGREE EXAMINATION
OBSTETRICS AND GYNAECOLOGY**

PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS & GYNAECOLOGY

Q.P. Code : 222241

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

Write notes on:

I. ANATOMY (4 x 5 = 20)

1. Histology of endometrium.
2. Development of Vagina.
3. Urogenital Diaphragm.
4. Graffian follicle.

II. PHYSIOLOGY (4 x 5 = 20)

1. Iron metabolism in pregnancy.
2. Intrinsic pathway of coagulation.
3. Functions of estrogen.
4. Gap junction.

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

1. Screening test for gestational diabetes.
2. Alpha-feto protein.
3. Lab investigations for iron deficiency anemia.

IV. PHARMACOLOGY (3 x 5 = 15)

1. Clomiphene citrate.
2. Thrombo prophylaxis.
3. Tocolytics.

V. MICROBIOLOGY (3 x 5 = 15)

1. Microbiology of chorioamnionitis.
2. Rubella in pregnancy.
3. Gardnerella vaginalis.

VI. PATHOLOGY (3 x 5 = 15)

1. Borderline ovarian tumours.
2. Liquid based cytology.
3. Blood pictures in different types of anemia.

[LH 2241]

OCTOBER 2015

Sub. Code: 2241

**M.S. DEGREE EXAMINATION
OBSTETRICS AND GYNAECOLOGY**

PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS & GYNAECOLOGY

Q.P. Code : 222241

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

Write notes on:

I. ANATOMY (4 x 5 = 20)

1. Supports of uterus.
2. Fallopian tube anatomy.
3. Development of placenta.
4. Uterine Artery.

II. PHYSIOLOGY (4 x 5 = 20)

1. Renal changes in pregnancy.
2. Luteal hormone surge.
3. Cervix in labour.
4. Hormonal changes at menopause.

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

1. Iron metabolism.
2. Biochemical changes in pregnancy induced Hypertension.
3. Role of anti-oxidants in obstetrics.

IV. PHARMACOLOGY (3 x 5 = 15)

1. Estrogen preparations for hormone replacement therapy.
2. Cabergoline.
3. Low dose aspirin.

V. MICROBIOLOGY (3 x 5 = 15)

1. Antibiotic prophylaxis.
2. Vaginal flora.
3. Microorganisms in pelvic inflammatory disease.

VI. PATHOLOGY (3 x 5 = 15)

1. Krukenberg tumour.
2. Premalignant lesions of vulva.
3. Pathology of hydatiform mole.

[LI 2241]

APRIL 2016

Sub. Code: 2241

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code :222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. Pelvic ureter.
2. Bony Pelvis.
3. Lymphatic drainage of the vulva.
4. Embryological development of genital tract.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Prostaglandins in labour.
2. Rhesus factor.
3. LH surge.
4. Physiology of lactation.

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

1. Proteinuria.
2. Steroidogenesis.
3. Nutritional requirements in pregnancy and lactation.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Misoprostol use in obstetrics.
2. Emergency contraception.
3. Labetalol.

V. MICROBIOLOGY: (3 x 5 = 15)

1. Discuss the principles of infection control.
2. Immunology of Recurrent pregnancy loss.
3. Diagnosis of Asymptomatic bacteriuria.

VI. PATHOLOGY: (3 x 5 = 15)

1. Frozen section.
2. Premalignant lesions of cervix.
3. Germ cell tumours of ovary.

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code :222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. Gartners cyst.
2. Anatomical changes in menopause.
3. Lymphatic drainage of vulva.
4. Cloaca.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Respiratory changes in pregnancy.
2. Mechanism of septic shock.
3. Physiology of labour.
4. Pituitary gonadotropins.

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

1. Bilirubin metabolism.
2. Biochemical changes in anaemia.
3. Investigations in disseminated intravascular coagulation.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Antithrombotics in pregnancy.
2. Selective estrogen receptor modulators.
3. Magnesium Sulphate.

V. MICROBIOLOGY: (3 x 5 = 15)

1. Trichomonas Vaginalis.
2. HPV oncogenesis.
3. Normal commensals of vagina.

VI. PATHOLOGY: (3 x 5 = 15)

1. Sex cord stromal cell tumors of the ovary.
2. Causes of Vaginal cysts and describe the pathology.
3. Chorion Villus sampling.

[LK 2241]

MAY 2017

Sub. Code: 2241

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code :222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

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

1. Detailed structure of Urethra.
2. Anatomy of uterus and its lymphatic drainage.
3. Course and branches of Internal iliac artery and its clinical significance.
4. Ischial spines and its importance.

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

1. Describe hematological changes in pregnancy.
2. Physiology of ovulation.
3. Enumerate the changes in the cervical mucus during the different phases of the menstrual cycle.
4. Foeto placental unit.

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

1. Fluid and Electrolyte balance in pregnancy and labour.
2. Carbohydrate metabolism in pregnancy.
3. Lab. Investigations for jaundice in pregnancy.

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

1. Paclitaxel.
2. HMG.
3. Nifedepine.

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

1. Candidiasis.
2. TORCH infections.
3. Puerperal infections.

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

1. Degenerative changes in fibroid uterus.
2. Vesicular mole.
3. Endometrial premalignant lesions.

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code :222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. What are the different anatomical relations of vagina? Describe its blood supply, venous and lymphatic drainage.
2. Anatomy of female urinary continence.
3. Describe the blood supply to the Ovary.
4. Different types of pelvis and its clinical significance.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Two cell gonadotrophin theory of ovarian steroidogenesis.
2. Describe the changes in the endometrium during the different phases of the menstrual cycle.
3. Physiological changes after menopause.
4. Define puberty. What are the stages?

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

1. Placental hormones.
2. Iron metabolism.
3. Sodium pump.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Antiepileptics in pregnancy.
2. Oral contraceptives.
3. Drugs in post menopaussl osteoporosis.

V. MICROBIOLOGY: (3 x 5 = 15)

1. Bacterial vaginosis.
2. Microbiology of PID.
3. Gonococcal infection.

VI. PATHOLOGY: (3 x 5 = 15)

1. Granulosa cell tumor.
2. Metropathia hemorrhagica.
3. Immunoprophylaxis of Hepatitis B infection.

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code :222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. Changes in fetal circulation after birth.
2. Development of placenta.
3. Perineal body.
4. Anatomy of pelvic ureter and its significance.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Hypothalamo pituitary ovarian axis.
2. Causation and stages of labour.
3. Pathophysiology of Rh Iso- immunization.
4. Myometrial physiology.

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

1. Rationale for routine laboratory investigations during pregnancy.
2. Iron metabolism.
3. Biochemical features in PCOS.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Oxytocin.
2. Oral hypoglycemics in pregnancy.
3. Role of chemotherapy in CA cervix.

V. MICROBIOLOGY: (3 x 5 = 15)

1. Liquid based cytology.
2. Group B streptococcus infection in pregnancy.
3. Immunology in Obstetrics.

VI. PATHOLOGY: (3 x 5 = 15)

1. Appendicitis in pregnancy.
2. Pathogenesis of Endometritis.
3. Borderline ovarian tumours.

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY:

(4 x 5 = 20)

1. Pelvic ureter and its significance.
2. Mullerian agenesis.
3. Development of ovary.
4. Graafian follicles.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Tanner's classification.
2. Physiology of lactation.
3. Iron metabolism.
4. Arias stella reaction.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Renal glycosuria.
2. Human placental lactogen.
3. Pulmonary surfactant.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Centchroman.
2. Labetalol.
3. Ormeloxifen.

V. MICROBIOLOGY:

(3 x 5 = 15)

1. Microbiology of Chorioamnionitis.
2. H1N1 in pregnancy.
3. Nuclear Amplification test in chlamydia.

VI. PATHOLOGY:

(3 x 5 = 15)

1. Anti D prophylaxis.
2. Dermoid cyst.
3. Circumvallate placenta.

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY:

(4 x 5 = 20)

1. Pampiniform plexus.
2. Pelvic diaphragm.
3. Development of vagina.
4. Broad ligament.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Adrenarche and Pubarche.
2. Physiology of labour.
3. Physiology of menopause.
4. CVS changes in pregnancy.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Glycaemic profile.
2. Serum Beta HCG.
3. Significance of Thyroid function test in pregnancy.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Saheli.
2. Iron sucrose.
3. Cabergolin.

V. MICROBIOLOGY:

(3 x 5 = 15)

1. Genital tuberculosis.
2. Genital herpes.
3. Septic abortion.

VI. PATHOLOGY:

(3 x 5 = 15)

1. Vaccines for HPV.
2. Dysgerminoma.
3. Embryonic node / Rokitansky node.

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Cod: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. Corpus luteum.
2. Nerve supply of female genital tract and its clinical significance.
3. Anatomical changes during puerperium.
4. Endopelvic fascia.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Physiology of ovulation.
2. Physiology of twinning.
3. Fetal nutrition.
4. Physiology of DUB.

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

1. Alpha fetoprotein.
2. Biochemical changes in hyperemesis gravidarum.
3. Vitamin- D and its significance in Obstetrics and Gynaecology.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Lignocaine.
2. Parenteral iron therapy.
3. Mifepristone.

V. MICROBIOLOGY: (3 x 5 = 15)

1. Vaccination during pregnancy.
2. Herpes simplex virus in pregnancy.
3. Trichomonas vaginalis.

VI. PATHOLOGY: (3 x 5 = 15)

1. Intrahepatic cholestasis in pregnancy.
2. Fine needle aspiration cytology.
3. Pathogenesis of congenital fetal anomalies.

M.S. DEGREE EXAMINATION
BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. Frankenhäuserplexus
2. Adnexal triangle
3. Cooper ligament
4. Bartholin gland

II. PHYSIOLOGY: (4 x 5 = 20)

1. Materno-fetal barrier
2. Cerebrovascular dysfunction in preeclamptic pregnancies
3. physiologic dyspnea
4. HLA-G protein

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

1. What factors regulate IGFs?
2. Mutation testing
3. What is the significance of performing FSH and LH estimation.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Filgrastim
2. HAART regimen?
3. Direct oral anticoagulants

V. MICROBIOLOGY: (3 x 5 = 15)

1. Congenital cytomegalovirus (CMV) infection
2. What are the features of Fitz-Hugh-Curtis syndrome ?
3. Vulvar abscesses?

VI. PATHOLOGY: (3 x 5 = 15)

1. Congenital adrenal hyperplasia
2. VIN
3. Labial adhesions

[LS 2241]

NOVEMBER 2020

Sub. Code: 2241

(OCTOBER 2020 SESSION)

M.S. DEGREE EXAMINATION

BRANCH II – OBSTETRICS AND GYNAECOLOGY

PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. Cervical ectropion
2. Pudendal nerve
3. Anal Sphincter Complex.
4. Septate hymen

II. PHYSIOLOGY: (4 x 5 = 20)

1. Respiratory changes in pregnancy.
2. Metabolic X syndrome
3. chloasma
4. Rh factor.

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

1. Molecular genetic analysis techniques.
2. QUAD screen
3. PKU

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Podophyllin resin
2. Dantrolene
3. Anastrozole

V. MICROBIOLOGY: (3 x 5 = 15)

1. What is the Jarisch-Herxheimer reaction?
2. What is Fitz-Hugh Curtis Syndrome.
3. Hepatitis C.

VI. PATHOLOGY: (3 x 5 = 15)

1. Luteolysis
2. Endometrial hyperplasia
3. Lichen sclerosis

[MS 0721]

JULY 2021

Sub. Code: 2241

(MAY 2021 SESSION)

M.S. DEGREE EXAMINATION

BRANCH II – OBSTETRICS AND GYNAECOLOGY

**PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY**

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY:

(4 x 5 = 20)

1. Course and branches of internal iliac artery.
2. Bartholin's gland.
3. Transformation zone of cervix.
4. Development of mullerian duct.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Physiology of lactation.
2. Iron metabolism in pregnancy.
3. Hormonal changes at menopause.
4. Pathophysiology of septic shock.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Fluid and electrolyte balance in pregnancy and labour.
2. Placental hormones.
3. Triple test.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Anti epileptic drugs.
2. Isoxsuprine.
3. Methotrexate.

V. MICROBIOLOGY:

(3 x 5 = 15)

1. Immunology in Obstetrics.
2. HPV Oncogenesis.
3. CD4 Count.

VI. PATHOLOGY:

(3 x 5 = 15)

1. Chorion villus sampling.
2. Borderline ovarian tumour.
3. Pathology of hydatidiform mole.

[MS 1121]

NOVEMBER 2021
(OCTOBER 2021 SESSION)

Sub. Code: 2214

M.S. DEGREE EXAMINATION

BRANCH II – OBSTETRICS AND GYNAECOLOGY

PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY:

(4 x 5 = 20)

1. Describe the course of pelvic ureter and its surgical importance.
2. Development of placenta.
3. Type of pelvis and its obstetrics significance.
4. Graffian follicle.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Physiological Anemia of pregnancy.
2. Patho physiology of Abruption placentae.
3. Thyroid changes during pregnancy.
4. Inhibin.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Screening test for gestational diabetes.
2. Surfactant.
3. Bilirubin metabolism.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Paclitaxel.
2. Zidovudine.
3. Low molecular weight heparin.

V. MICROBIOLOGY:

(3 x 5 = 15)

1. Micro organisms in PID.
2. Immunological tests for diagnosis of pregnancy.
3. Asymptomatic bacteriuria.

VI. PATHOLOGY:

(3 x 5 = 15)

1. Liquid based cytology.
2. Germ cell tumours of ovary.
3. Degenerative changes in fibroid uterus.

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

[MS 0522]

MAY 2022

Sub. Code: 2241

M.S. DEGREE EXAMINATION

BRANCH II – OBSTETRICS AND GYNAECOLOGY

**PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY**

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY:

(4 x 5 = 20)

1. Amniotic fluid formation.
2. Urogenital triangle.
3. Lymphatic drainage of pelvis.
4. Gonadal development.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Endocrine control of ovulation.
2. Fetal circulation and changes after birth.
3. Iron metabolism in pregnancy.
4. Kallman's syndrome.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. VEGFs.
2. Gap junctions.
3. Cell adhesion molecules.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Nitric oxide.
2. Atezolizumab.
3. Calcitonin.

V. MICROBIOLOGY:

(3 x 5 = 15)

1. Staphylococcal toxic shock syndrome.
2. SARS and other corona viruses in pregnancy.
3. Functions of T cells.

VI. PATHOLOGY:

(3 x 5 = 15)

1. Haematocolpos.
2. Premature ovarian insufficiency.
3. Heteroplasia and cellular response to injury.

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

[MS 1022]

OCTOBER 2022

Sub. Code: 2241

M.S. DEGREE EXAMINATION

BRANCH VI – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code: 222241

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY:

(4 x 5 = 20)

1. Pelvic diaphragm and its significance.
2. Changes in fetal circulation after birth.
3. Histology of endometrium.
4. Anatomy of uterus and its lymphatic drainage.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Cardiovascular changes in pregnancy.
2. Hypothalamo pituitary ovarian axis.
3. Pathophysiology of pre eclampsia.
4. Metabolic X syndrome.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Lab investigations for jaundice in pregnancy.
2. Quadruple test.
3. Renal glycosuria.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Oral hypoglycemic agents in pregnancy.
2. Mifepristone.
3. Centchroman.

V. MICROBIOLOGY:

(3 x 5 = 15)

1. Immunology of recurrent pregnancy loss.
2. Bacterial vaginosis.
3. Septic abortion.

VI. PATHOLOGY:

(3 x 5 = 15)

1. Endometrial hyperplasia.
2. Cone biopsy of cervix.
3. Embryonic node.

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

[MS 0723]

JULY 2023

Sub. Code: 2241

(MAY 2023 EXAM SESSION)

M.S. DEGREE EXAMINATION

**BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY**

Q.P. Code: 222241

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY:

(4 x 5 = 20)

1. Bartholin's Gland.
2. Pelvic Ureter.
3. Development of Human placenta.
4. Diameters of foetal skull.

II. PHYSIOLOGY:

(4x5=20)

1. Pulmonary changes in pregnancy.
2. Embryonic stemcells – Definition, Types, Characteristics.
3. Physiology of lactation.
4. Ovarian Steroidogenesis.

III. BIO CHEMISTRY:

(3x5=15)

1. Foetal Pulmonary Surfactant estimation.
2. Investigation in Disseminated Intra Vascular coagulation.
3. Proteinuria in Pregnancy.

IV. PHARMACOLOGY:

(3x5=15)

1. Selective Progesterone Receptor Modulator.
2. Methotrexate.
3. Anti epileptics in pregnancy.

V. PATHOLOGY

(3x5=15)

1. Sperm viability test.
2. Peripheral smear.
3. Foetal Hemoglobin.

VI. MICROBIOLOGY:

(3x5=15)

1. Indirect Coombs Test.
2. Hospital Acquired Infection (HAI).
3. Cytomegalo Virus infection in pregnancy.

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

[MS 1223]

DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)

Sub. Code: 2241

M.S. DEGREE EXAMINATION

BRANCH II – OBSTETRICS AND GYNAECOLOGY
PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY

Q.P. Code: 222241

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY:

(4 x 5 = 20)

1. Changes in cervix before and during labour.
2. Clinical significance of pelvic Ureter.
3. Corpus Luteum.
4. Fallopian tube.

II. PHYSIOLOGY:

(4x5=20)

1. Pathophysiology of Rh isoimmunization.
2. Iodine metabolism.
3. Sheehan syndrome.
4. Significance of prolactin in pregnancy and lactation.

III. BIO CHEMISTRY:

(3x5=15)

1. Biochemical changes in hyperemesis gravidarum.
2. Triple screening.
3. Glycemic profile.

IV. PHARMACOLOGY:

(3x5=15)

1. Filgrastim.
2. Prophylaxis of Infective endocarditis.
3. Role of prostaglandins in labour.

V. PATHOLOGY

(3x5=15)

1. Turner syndrome.
2. Transfusion reaction.
3. HPV oncogenesis.

IV. MICROBIOLOGY:

(3x5=15)

1. Prevention of nosocomial infection.
2. Vaginal flora.
3. MHC complex.
