

पाटन स्वास्थ्य विज्ञान प्रतिष्ठान सेवाआयोग  
प्राज्ञिक सेवा, प्रसुति तथा स्त्री रोग समूह, सह-प्राध्यापक पद, दशौं (१०) तहको  
खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

**Paper II: Technical Subject**

**Section (A) - 45 Marks**

**1. Obstetrics**

- 1.1 Anatomy: Anatomy of abdomen and pelvis applied to surgical procedures undertaken by the obstetrician and gynecologist.
- 1.2 Physiology: Physiological changes in normal pregnancy.
- 1.3 Pathology: Pathological changes in pregnancy.
- 1.4 Pharmacology: Drugs and medicines used in pregnancy and lactations. Drugs contraindicated in pregnancy.
- 1.5 Immunology: Immunological changes in pregnancy. Fetal development of the immune system, with particular knowledge of rhesus and iso-immunisations.
- 1.6 Infection in pregnancy: Infection in pregnancy and its effect on fetus, Epidemiology, diagnostic techniques, prophylaxis, immunization and the use of antibiotics and antiviral agents.
- 1.7 Epidemiology and statistics: Collect data, apply methods of statistical analysis. Knowledge of setting up clinical trials and the ability to interpret data through commonly used terms and techniques, interpretation of results of research, investigation, clinical trial design and medical audit.
- 1.8 Diagnostic imaging: Understand the application of ultrasound, computerized tomographic scanning and magnetic resonance imaging including its recent advances.
- 1.9 Genetics and embryology: Knowledge of normal and abnormal karyotypes, inheritance of genetic disorders and of the genetic causes of early abortion Embryology. Demonstrate the ability to explain to patients and discuss its practical and ethical implications.
- 1.10 Normal pregnancy: Changes in maternal and fetal anatomy and physiology during normal pregnancy. Preconception, antepartum, intrapartum and postpartum management.
- 1.11 Analgesia and anesthesia in pregnancy including painless delivery.
- 1.12 Importance of nutrition during pregnancy and puerperium. Understand the importance of breast feeding and postpartum contraception.
- 1.13 Abnormal pregnancy: Knowledge of all aspects of abnormality during pregnancy, labor and puerperium and their management. Understand effects of pre-existing disease (obstetrical, gynecological medical or surgical) on pregnancy and demonstrate the ability to provide informative counseling before, during and after pregnancy. Medical disorders in pregnancy.
- 1.14 Normal and complicated deliveries including instrumental deliveries.
- 1.15 Operative Obstetrics: Surgical delivery including peripartum hysterectomy.
- 1.16 Critical care Obstetrics.
- 1.17 Neonatal resuscitation: Knowledge of neonatal resuscitation and of the principles of neonatal management:- respiratory distress syndrome (RDS), prematurity and congenital abnormality.
- 1.18 Counseling: Preconception, antenatal, postnatal counseling.

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**2. Recent advances in Obstetrics:**

- 2.1 Antenatal screening for down's syndrome.
- 2.2 Management of epilepsy in pregnancy Fetal problems associated with recreational drugs.
- 2.3 Is operative vaginal delivery- a dying art?
- 2.4 Risk management in obstetrics and gynecology.
- 2.5 Developmental stem cell therapy.
- 2.6 Fetal therapy.
- 2.7 Pregnancy and advanced maternal age.
- 2.8 Delivery after Caesarean section .
- 2.9 Severe obstetric injury causing anal sphincter damage, sexual dysfunction and fistulae.

**Section (B) - 55 Marks**

**3. Gynaecology**

- 3.1 Prepubertal gynecology: Knowledge of normal and abnormal sexual development, pediatric gynecological pathology and its management.
- 3.2 Adolescent gynecology: Normal puberty, pubertal disorders and its management. Adolescent reproductive health counseling.
- 3.3 Menstruation: Physiology of normal menstruation, patho-physiology of menstrual disorders and their approach and management.
- 3.4 Abdomino-pelvic mass: Approach and management.
- 3.5 Menopause: Management and hormone replacement therapy.
- 3.6 Infertility: Causes, investigation and management of the infertile couple. Assisted reproductive techniques and surrogacy with its dilemma and ethical implications.
- 3.7 Genital tract infection: Sexually transmitted diseases including AIDS.
- 3.8 Early pregnancy loss: Cause of abortion, its management and complications. Therapeutic abortion and its legal aspects. Gestational trophoblastic disease.
- 3.9 Contraception: Various methods of permanent and temporary contraceptives, their use and side effect.
- 3.10 Psycho-sexual disorders: Psychosexual problems including puerperal psychosis and the psycho-social impact of violence against women.
- 3.11 Uro-gynecology: Surgical and non- surgical management of uro-gynecological problems.
- 3.12 Gynecological oncology: Epidemiology and etiology and the principles of carcinogenesis, tumor immunology and pathology. Diagnostic techniques and staging of gynecological tumours. Treatment including surgery, radiotherapy, chemotherapy, and terminal care of patients.
- 3.13 Breast: Problems of lactation and its management.
- 3.14 Gynecological surgery: Principle of gynecological surgical procedures. Preoperative and post operative care and follow up.
- 3.15 Terminally ill patient care: Palliative management.

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- 3.16 Ethical and medico-legal aspects: Basic ethical and legal issues involved in contemporary obstetrical and gynecological practice.
- 3.17 Sexual assault: Examination recording and its medical implications.
- 3.18 Recent advances: Uro-gynecology, Infertility, Gynecological oncology.
- 3.19 Community obstetrics and gynecology

**4. Recent advances in Gynaecology:**

- 4.1 Deciding on the appropriate surgery for stress incontinence.
- 4.2 What's new in polycystic ovary syndrome.
- 4.3 Advances in the treatment of male factor infertility.
- 4.4 Magnetic resonance guided thermal ablation therapy for uterine fibroids.
- 4.5 Management of trophoblastic disease.
- 4.6 Fibroid embolization.
- 4.7 The Ten-Step Vaginal Hysterectomy.
- 4.8 New developments in the management of uterovaginal prolapse.
- 4.9 Post hysterectomy vaginal vault prolapse.
- 4.10 Hormones and depression in women.
- 4.11 What are the newer concepts in Vestibulitis - conservative treatment or surgery?

-Knowledge about basic community disease profile - Definitions and causes of maternal, perinatal and neonatal morbidity and mortality. - Effect of socio-cultural behavior in Reproductive health. - National Health Programmes related to maternal and child health, continuing health services for maternal and child health, organizing health care delivery and referral system. - Future vision to reduce maternal and perinatal mortality and morbidity. C) Counseling

1. Management modalities options.
2. Preoperative and postoperative counseling
3. Breaking bad news

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