

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश

स्वास्थ्य सेवा, अब्स्टेटिक्स तथा गाइनोकोलोजी समूह, एघारौं (११) तहको खुला र आन्तरिक
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Paper II: Technical Subject

A. Obstetrics

- 1) **Anatomy:** Knowledge of anatomy of abdomen, pelvis and urogenital system applied to surgical procedures undertaken by the obstetrician and gynaecologist.
- 2) **Pathology:** Infection and inflammation in pregnancy. Knowledge about changes in homeostasis in health and disease of a pregnant woman.
- 3) **Pharmacology:** Knowledge of those drugs used in obstetrics. Drugs contraindicated in pregnancy.
- 4) **Immunology:** Immunological changes in pregnancy; development of the immune system in fetus; with particular knowledge of rhesus isoimmunisation.
- 5) **Infectious diseases:** Knowledge of infectious diseases affecting pregnant and non-pregnant woman and fetus in utero. Knowledge of epidemiology, diagnostic techniques, prophylaxis, immunization and the use of antibiotics and antiviral agents.
- 6) **Epidemiology and statistics:** Research methodology: collect data, apply different tools 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, investigations, clinical trials design and medical audit.
- 7) **Diagnostic imaging:** Understand the application of ultrasound, computerized tomographic scanning, magnetic resonance imaging and hysterosalpingography.
- 8) **Genetics and Embryology:** Detailed knowledge of normal and abnormal karyotypes, inheritance of genetic disorders and genetic causes of early abortion to diagnosis fetal abnormality, intrauterine treatment of fetal genetics and embryology. Demonstrate the ability to explain to patients and discuss its practical and ethical implications.
- 9) **Preconception counseling**
- 10) **Normal pregnancy:** Changes in maternal and fetal physiology during normal pregnancy; antenatal, intrapartum, postpartum care and normal puerperium. Analgesia and anaesthesia during labour. Importance of nutrition during pregnancy and puerperium. Understand the importance of breast feeding and postpartum contraception.
- 11) **Abnormal pregnancy:** Knowledge of all aspects of abnormality during pregnancy, labour and puerperium and their management. Understand effects of pre-existing disease (obstetrical, gynaecological, medical and surgical) in pregnancy and demonstrate the ability to provide informative counseling before, during and after pregnancy. Knowledge of neonatal resuscitation and principles of neonatal management, Respiratory distress syndrome (RDS), prematurity and congenital abnormality.
- 12) **Community obstetrics:**
 - a Knowledge about basic community disease profile
 - b Definitions and causes of maternal morbidity and mortality; perinatal, neonatal and infant mortality rate.

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- c Effect of socio-cultural behavior in Reproductive health.
 - d National Health Programmes related to Maternal and child health, continuing health services for maternal care and child health, organizing health care delivery and referral system.
 - e Future vision to reduce maternal morbidity and mortality and perinatal mortality.
- 13) Recent advances and subspecialty: Fetal medicine.

B. Gynaecology

1. **Prepubertal gynaecology:** Knowledge of normal and abnormal sexual development, paediatric pathology and its management, normal puberty and its disorders and their management.
2. **Adolescent gynaecology:** Disorder of behaviour and sexual function, counseling for safe living.
3. **Menstruation:** Physiology of normal menstruation, pathophysiology of menstrual disorders their investigation and management. Menopause and its management.
4. **Infertility:** Causes of infertility, investigations and management of the infertile couple, techniques involved in assisted reproduction.
5. **Infection:** Sexually transmitted diseases including HIV AIDS.
6. **Abortion:** Causes of abortion, its management, complications of abortion and its legal aspects.
7. **Contraception:** Various methods of temporary and permanent contraceptives, their uses and side effects.
8. **Psychosexual medicine:** Management of psychosexual problems including puerperal psychosis and the psychosocial impact of violence against women
9. **Urogynaecology:** Surgical and non- surgical management of urogynaecological problems.
10. **Gynaecological oncology:** Premalignant gynaecological lesions. Epidemiology and aetiology and the principles of carcinogenesis, tumor immunology and pathology. Diagnostic techniques and staging of gynaecological tumors. Treatment including surgery, chemotherapy, radiotherapy and terminal care of patients dying due to gynaecological malignancy.
11. **Breast:** Problems of lactation and its management; breast lump and its management.
12. **Obstetrical and Gynaecological surgery:** Principles of obstetrical and gynaecological surgeries; preoperative assessment and post operative care.
13. **Ethics and the law:** Basic ethical and legal issues involved in contemporary obstetrical and gynecological practice; Introduction to ethical theories, medical and professional ethics, ethics in research and health policy.
14. **Recent advances and subspeciality:** Uro-gynaecology, Infertility, Gynaecology oncology, Minimally invasive gynaecological surgeries.
