

**JAWAHARLAL NEHRU MEDICAL COLLEGE,
SAWANGI (MEGHE), WARDHA**

**THME WISE TOPIC OF PhD FOR ENTRANCE EXAM FOR PhD IN
OBSTETRICS AND GYNAECOLOGY**

Theme 1 : General and Operative obstetrics

Theme 2 : Reproductive endocrinology

Theme 3 : General in Operative Gynaecology (Basic science + Obstrtrics and neonatology)
Anatomy, Physiology , Biochemistry, Pharmacology

Theme 4 : Contraception (MTP)

Theme 5 Recent Advances

Theme	Competency
Theme 1 General and Operative obstetrics	Knowledge of Historical Aspect and basic surgical principles & its application in development of OBGY Science
	Manages and resolves conflicts, confrontations, or disagreements in a constructive manner to improve doctor patient relationship and basic documentation
	Anatomy: knowledge of Normal & abnormal development, structure and function (female& male) urogenital system and female breast and normal menstrual cycles -Applied Anatomy of urogenital system,
	Pharmacology -knowledge of Pharmacology of identified drugs used during pregnancy. Labour, post partum period
	knowledgeof Preoperative , intraoperative and post operative procedures. And ot discipline Knowledge of all surgical knots, conduct of normal deliveris, episiotomies and minor procedures.
	Post Partum knowledge of Complication of 3 rd stage of labour Management of primary & secondary post partumhaemorrhage

	Identifies the principles of General clinical practice and surgical ethics & its application in clinical trials and consumer protections.
	Knowledge of OBGY Audit & its application to control health related expenditures.
	<p>Antenatal Care:knowledge of Prenatal care of normal pregnancy including examination, nutrition, immunization & follow up. Identification and management of basic antenatal care Knowledge of normal and abnormal ailments of pregnancy and its management</p>
	<p>Intrapartum Care:knowledge of - Normal Labour – mechanism & management. - Partographic monitoring of labour progress and appropriate management. - Identification and conduct of abnormal labour. -- Identification and management of intrapartum complications</p>
	<p>Pathology -knowledge of Pathophysiology of complete genital organs, pregnancy, placenta, puerperium and lactation.</p>
	<p>1. Antenatal Care: Knowledge and management of High Risk conditions during pregnancies. Knowledge of all obstetrical complications during pregnancy . fetal malpositions and malpresentations. - Management of pregnancies complicated by medical, surgical disorders --- systemic diseases in pregnancy - Associated surgical problems: - Gynecological disorders associate with pregnancy - National health MCH programs.</p>
	<p>Intrapartum Care: knowledge and management Normal Labour – mechanism & management Partographic monitoring. Identification and conduct of abnormal labour and management - Analgesia & anesthesia in labour. - Maternal & fetal monitoring in normal & abnormal labour - Identification and management of intrapartum and post partum complications</p>
	<p>Post Partum knowledge of Identification & management of genital tract trauma Management of early neonatal problems. Normal and abnormal puerperium – sepsis and complications Hematological problems in Obstetrics including coagulation disorders Complication of 3rd stage of labour</p>
	<p>New Born Care of new born: Normal and high risk new born (including NICU care) Birth trauma – Detection & management.</p>

	<p>Management of common neonatal problems.</p> <p>operative obstetrics knowledge of all operative procedures, preoperative, intraoperative and post operative procedures. And of discipline</p> <p>Knowledge, diagnosis and management of High Risk pregnancy</p> <p>Pregnancy associated with all medical, surgical, gynaecological, immunological, neurological disorders</p> <p>management of Maternal and fetal health in high risk pregnancy with the help of including modern technologies of use Doppler etc</p> <p>Management of all abnormal labour, and abnormalities of pelvis, obstructed labor, Analgesia & anesthesia in labour.</p> <p>management of intrapartum and 3rd stage complications.</p>
<p>Theme 2</p> <p>Reproductive endocrinology</p>	<p>Physiology -knowledge of Anatomical & physiological changes in female genital tract during pregnancy.</p> <p>-Physiology of pregnancy</p> <p>-Physiological & Neuro-endocrinal changes during puberty, adolescence, menstruation, ovulation, spermatogenesis, fertilization, climacteric & menopause.</p> <p>Biochemistry -knowledge of knowledge of Biochemical and endocrine changes during pregnancy, including systemic changes</p> <p>-Biophysical and biochemical changes in uterus and cervix during pregnancy & labour.</p> <p>Endocrinology -knowledge of Role of hormones in Obstetrics & Gynecology.</p>
<p>Theme 3</p> <p>General in Operative Gynaecology (Basic science + Obstrtrics and neonatology)</p> <p>Anatomy, Physiology , Biochemistry, Pharmacology</p>	<p>knowledge of Epidemiology and etiopathogenesis of gynecological disorders including benign disorders, malignancies and infections.</p> <p>Knowledge of wound healing, and its complication and management.</p> <p>Infective, benign and malignant conditions of vulva, vagina, cervix, uterus, tubes and ovaries, prolapse and fibroid and knowledge of all operative procedures of gynaecology</p>

	Knowledge, preventions and management of all sexually transmitted diseases
	MALE & FEMALE INFERTILITY: Knowledge of complete male and female infertility, diagnosis and its management
	Knowledge, diagnostic modalities and Management of gynecological disorders, like fibrod, malignancies (cervical and ovarian), prolapse
	Knowledge, diagnostic modalities and Management of all neoplasia of genital organs Knowledge, diagnostic modalities and Management of -Inter sex, ambiguous sex and primary amenorrhoea, secondary amenorrhoea and dysfunctional uterine bleeding ,chromosomal abnormalities. Reproductive endocrinology:
	Management of female infertility Methods of Ovulation Induction Tubal (Micro) surgery. Knowledge of Treatment modalities. Male Infertility Obesity & other Infertility problems. Knowledge Advanced Assisted Reproductive techniques (ART).IUI, IVF, GIFT,ZIFTETC
	Knowledge of radiotherapy and chemotherapy in gynecological malignancies, urogenital fistulas
	Rational approach in diagnosis and management of endocrinal Abnormalities DUB, menopause, HRT.
	Knowledge of Urological problems in Gynecology – Diagnosis and management.
	Knowledge and indications of various diagnostic gynecological procedures Interpretation of investigations in relevance with the patient.
	Performing various surgical operative procedures by standard protocols.likelses, d and c , d and e, tubal ligation, hysterectomy, diagnosis and management of all post operative surgical complications
	Diagnosis and management of gynaecological and obstetrrogenices, entopic pregnancy, twisted ovarian cyst icemen without endangering pts life
	Knowledge and implementation of all endoscopic procedures in gynaecology like hysteroscopy,laparoscopy Recent advances in gynaecology – diagnostic and therapeutic, pediatric, adolescent and geriatric gynaecology, introduction to advanced gynaecological procedure.

<p>Theme 4 Contraception (MTP)</p>	<p>Knowledge of Prenatal diagnosis (of fetal problems & abnormalities), treatment fetal therapy. M.T.P. P.N.D.T. act et. National health MCH programs, Social obstetrics and vital statistics</p>
	<p>FAMILY WELFARE & DEMOGRAPHY: Obstetrical and social statistics, national programme, contraceptives and sterilisation methods</p>
<p>Theme 5 Recent Advances</p>	<p>Medical Genetics: knowledge of -Basic medical genetics including cytogenesis. -Pattern of inheritance. -Chromosomal abnormalities- -General principles of Teratology -Screening, counseling and prevention of developmental abnormalities. -Birth defects – genetics, teratology & counseling.</p>