



MBBS Final Year Obstetrics & Gynaecology National University of Medical Sciences Pakistan

Students Study Guide CMH Institute of Medical Sciences (CIMS) Bahawalpur

CALENDAR OF 1ST YEAR MBBS CLASS 2020 / 2021

Description			Date &	Day		Dept Responsibilities
College Re-Opening	7 June 202	21 (Mon)				
Clinical Rotation /Trg		07 Jun to 16 July	26 July Sep	to 03	06 Sep to 15 Oct	06 Weeks each DepttTime: 0800hrs onwards
Hrs	Medicine	Batch A	Batch E	3	Batch C	All left over practicals trg to
07 June To 05 Nov 2021	Surgery	Batch B	Batch ()	Batch A	be completed
18x Weeks Trg Hrs	Paeds	07-25 June Batch C	26 July Aug Ba		06 Sep to 24 Sep Batch B	OSCE trg / Short & Long Case
	Gynae	28 Jun to 16 July Batch C	16 Aug Sep Ba		27 Sep to 15 Oct Batch B	 Annual Assessment for NUMS
3x Weeks Revision		18-22 Oct	25-29 (Oct	01-05 Nov	
classes	Medicine	Batch A	Batch E	3	Batch C	
	Surgery	Batch B	Batch (Batch A	
	Paeds	18-19 Oct Batch C	25-26 (Batch A		01-02 Nov Batch B	
	Gynae	20-22 Oct Batch C			03-05 Nov Batch B	
Eid ul Azha Leave	17-25 July	2021	•			
Pre Send up Prep Leave	06-14 Nov	2021 (09 Days)				
	15 Nov 202	21 (Mon) - 0900 h	ırs	Medicin	e I	
	19 Nov 202	21 (Fri) - 0900 hrs	3	Medicin	e II	
Send up Exam		21 (Mon) - 0900 h		Surgery		Exam Cell
(Theory)		21 (Fri) - 0900 hrs		Surgery		— Exam Sen
		21 (Tue) - 0900 hi		Gynae		
Viva/OSCE/Short &	04 Dec 202	21 (Sat) - 0900 hr	S	Paeds		Door oativo Donostro onto
Long Case	06-10 Dec	06-10 Dec 2021				Respective Departments
Prep Leave Annual Exam	11 Dec to	13 Jan 2022 (34 [Days)			
NUMS Prof Exams	14 Jan 202	22				

WEEKLY TIME TABLE FINAL YEAR MBBS CLASS (2020 / 2021)

		-	MC Tim	ND e in						TUI Tim	_							NE: e in							IRS e in					-		RID. e ir		s	
Batch A Medicine	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	J	7
Batch B Surgery	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	M M	7
Batch C Gynae & Obs	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	A B R E	7
Batch D Pediatrics	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	A K	7

<u>KEY</u>		
	Behavioral Sciences	Clinics
	Theory Lectures	Self-Directed learning

TEACHING HOURS

SUBJECTS	FINAL YEAR	TOTAL
Medicine	500	*900 (at the end of final year)
General Medicine		500
Psychiatry		50
Emergency Medicine		50
Dermatology		50
Cardiology		50
Neurology		50
Pulmonology		50
Nephrology		50
Gastroenterology		50
Surgery	500	*900 (at the end of final year)
General Surgery		*600
Anesthesiology and Critical Care		*50
Orthopedics and Traumatology		*100
Radiology		*50
Surgical Specialties:		
- Urology (Compulsory)		50
- Neurosurgery/ Spine Surgery/		
Pediatric Surgery/ Thoracic Surgery/		50
Plastic Surgery/ Burn/ Vascular		
Surgery	000	*000 (at the are het Challes are)
Gynecology and obstetrics	230	*300 (at the end of final year)
Pediatrics	230	*300 (at the end of final year)
Pediatrics		250
Neonatology		50
Behavioral Sciences & Professionalism	M	
Communication Skills		*450 (at the are het Construct)
Professionalism	25	*150 (at the end of final year)
Leadership and Management		
Medical and Islamic ethics		
Infection control		*25
Patient safety	10	*25 (at the end of final year)
Self-Directed Learning	100	*500 (at the end of final year)
Co-curricular activities	40	*200 (at the end of final year)

I. Context/Preamble:

Obstetrics and Gynaecology is an integral part of the undergraduate curriculum. Basis of Obstetrics and Gynaecology is established in the initial years through contribution from basic sciences. It is being taught as a major subject in the last two years of undergraduate program. A minimum of 300 hours have been allocated for Obstetrics and Gynaecology as per latest PMDC rules and regulations.

II. Mission

Our academic mission is to train and develop medical students to practice as a safe obstetrician and gynaecologist and to advance in the field of Obstetrics and Gynaecology

III. Competencies

- Communication skills
- Critical thinking
- Problem solving
- Clinical decision making
- Examination skills
- Procedural skills

IV. Expectations from students

- Be professional in behavior and dress code when communicating with patient and her family
- Respect patient and their family's wishes along with social and cultural norms
- Examine patients with their permission in the presence of chaperon
- Inculcate behavior of regular self-learning for academic sessions & clinical problem encounters
- Keep yourself abreast with current relevant information about your patients
- Document and update patient's progress in her file regularly

V. Course Outcomes

To equip them with essential knowledge, skill and attitude in order to enable them to:

- Diagnose common Obstetric and Gynecological problems, suggest and interpret appropriate investigation, rationalize treatment plan and if appropriate, refer patient for specialist opinion/ management.
- Suggest preventive measure for the common public health problem in the community
- Perform relevant procedures
- Convey relevant information and explanations accurately to patients, families, colleagues and other professionals
- Participate effectively and appropriately in an inter professional health care team

- Understand medical ethics and its application pertaining to Obstetrics and Gynaecology and maintain the confidentiality of the patient.
- Adapt research findings appropriately to the individual patient situation or relevant patient population

VI. Learning Strategies & Situations

A variety of pedagogies are used in this course, including didactic teaching, team-based and evidence-based learning in class rooms and patient side environment. Students are encouraged to adopt and inculcate self-learning strategies during the course

VII. Learning Opportunities

- Teaching Ward Rounds
- Case presentations
- Case based Discussion
- Short cases in OPD
- Bedside Discussion
- Small Group Discussion
- Self-learning Activities
- Skill Lab Activity
- Observation of operations in OT

VIII. Venues for learning opportunities

- Outpatient clinic
- Emergency room
- Labour room
- Operation room
- Inpatient ward
- Tutorial room
- Libraries including audio-visuals

IX. Specific Learning Outcomes

Learning outcomes specific to the Obstetrics and Gynaecology course have been tabulated below in the table of specification and matched with educational strategies.

X. Implementation of curriculum

*The university will give details of all content including learning outcomes and table of specifications, distribution of which across the three years and rotations is upon the discretion of the medical college/institute. Rotation plan is devised by the institute itself.

All institute to follow PM&DC minimum requirements i.e 300 contact hours with 50% weighting to theory content and 50% to practical/skills

XI. Attendance & Discipline:

- A record of attendance of medical students, class/ test results, end of module/rotation test result, workshop marks should be updated regularly.
- Each Head of unit would keep a log of all clinical activities
- Attendance of each student would be endorsed in his logbook as well.
- Overall 75% attendance is mandatory to appear in final professional exam

XII. Assessment/ Feedback of clinical placement

Assessment is an important aspect of any training program which not only includes assessment of students but also of the training program itself. The performance of each student would be marked and counted towards final internal assessment. The following tools/ methods would be used for this purpose:

XIII. Theory

- Periodical class tests
- End Modular/End of Rotation Exams: At the end of each clinical rotation, a theory exam would be held concurrently for the entire class from the syllabus covered during this period.

XIV. Practical

- Log Book: Each student would complete his log book and get it countersigned from HOD at the end of each rotation. Log book is maintained during the rotation
- **CBL performance**: Performance of each student would be marked and sent to Head of Clinical Training
- **End of Rotation Exams**: At the end of each clinical rotation, the whole group would have a clinical exam.

XV. Evaluation of the Course

- Student portfolio should be maintained in the department in which students should give their feedback either by name or anonymously
- Faculty suggestions if any, for improvement of training may be incorporated in the next rotation

Recommended Readings

- Obstetrics by Ten Teachers
- Gynaecology by Ten Teachers

Reference books

- o Evidence based text for MRCOG by David M. Luesley
- Dewhurst's Text book of Obs and Gynae by Keith Edmonds
- Royal College of Obs & Gynae and American College of Obs & Gynae guidelines
- PM&DC approved journals

Table of Specification (Themes/Topics/Learning outcomes/Educational Strategies/Weightings)

SPECIFIC LEARNING OBJECTIVES IN OBSTETRICS

The table below gives details of all content, distribution of which across the three years and rotations is upon the discretion of the medical College/Institute

Clinical Problem/ Theme	Goals / Competencies	Learning (At the end of teaching session to:	Objectives In the student should be able	Instructional Strategy	Assess ment Tool
		Knowledge	Skills/Attitude	-	
		I. PREGNANCY AND LAB	OUR	1	
Maternal Anatomy/Physiology in Pregnancy and Labor	 Anatomy of the pelvis Physiological changes in maternal systems during pregnancy 	 Demonstrate an understanding of anatomy of the pelvis Compare normal physiological changes of body systems in pregnant and non pregnant patient. Compare the important effects in a pregnant woman of estrogen and progesterone and correlate their function. Appraise the factors that are implicated in the onset of labour 	 Take and present an obstetric history Perform clinical examination of heart, lungs, thyroid and breast of healthy pregnant women. Counsel a normal pregnant woman the reasons why it can be normal to experience breathlessness, urinary frequency, constipation and heat intolerance. 	SGD, Self Directed Learning Case presentation/ OPD	OSCE SAQs/ MCQs

Pre-Pregnancy Care	 Principles of pre- pregnancy care Genetic mode of inheritance and common structural abnormalities of fetuses resulting from abnormal development 	 Demonstrate an understanding of genetic mode of inheritance and common structural abnormalities of fetuses Identify the maternal conditions that require pre-pregnancy care and discuss the principles of management. Appraise the screening tests that may be performed in pre-pregnancy counseling of apparently healthy women. 	 Summarize ethical issues relevant to prepregnancy screening of genetic disorders. Counsel apparently healthy women regarding benefits of pre-pregnancy care. 	SGD, Self- Directed SAQs/ Learning, OPD MCQs
Antenatal Care	 Principles of antenatal care Concept of preconception care Minor pregnancy complications 	 Plan hematological investigations preformed at the booking visit. Select the infections screened for at the booking visit, and summarize the possible adverse sequelae associated with these infections. Plan a schedule of antenatal visits for a normal pregnant woman. 	 Demonstrate history taking of a pregnant woman at booking. Perform clinical examination of a pregnant patient. Prepare a patient for regular antenatal checkups even though she is completely healthy 	Self-Directed Learning/ Case presentation/ OPD OSCE SAQs/ MCQs PROVIDED OSCE SAQs/ MCQs

Prenatal Diagnosis	Prenatal diagnosis and	 Diagnose and manage minor pregnancy complications in antenatal clinic. Appraise the anomaly 	Interpret the following	SGD, Self-	OSCE,
	methods available for prenatal diagnosis.	scan in detail with its purpose and systems examined. Identify pregnant women who need prenatal diagnosis. Plan the tests that are necessary for prenatal diagnosis.	 investigations: The result of Down's syndromes screening tests The reports from an anomaly scan. Counsel a patient with fetal anomaly. 	Directed Learning Case presentation/ OPD	SAQ, MCQ.
Labour and Delivery	Normal labour and its management:	stages of labour Manage abnormal labour Appraise operative vaginal delivery	 Prepare and interpret partogram of normal laboring women. Predict fetal distress on CTG. Participate in management of labour. Conduct normal vaginal delivery. Observe/ assist operative vaginal delivery. Communicate clearly and effectively to a laboring woman and her partner. 	Self-Directed Learning Case presentation, labour room, ward rounds	OSCE/ SAQ/ MCQ

Third Stage of Labour	Management of third	Compare active and	 Counsel a patient regarding operative vaginal delivery and LSCS. Demonstrate delivery of 	Self-Directed	OSCE/
	stage of labor Complications of third stage of labour including perineal tear, postpartum haemorrhage	physiological management of third stage of labor. Summarize the causes and management of primary & secondary PPH. Appraise postnatal complications that cause maternal deaths.	placenta by controlled cord traction on a mannequin. Conduct / assist third stage of labor. Estimate blood loss at delivery/C section	Learning Case presentation, labour room, Workshop	SAQ's/ MCQ's
Puerperium	 Normal puerperium Complications of puerperium postpartum amenorrhoea, lactational problems, medical and psychiatric disorders, puerperal pyrexia, postpartum pyrexia 	Compare the benefits of breast feeding and bottle feeding Manage postpartum amenorrhoea, lactational problems, medical and psychiatric disorders, puerperal pyrexia, postpartum pyrexia on the basis of its etiology	 Counsel a woman on exclusive breast feeding. Counsel a woman regarding postpartum contraception 	Self-Directed Learning Case presentation	OSCE/ SAQs/ MCQs
		DISORDERS IN PREGNANCY(Ac	1	T	
Anaemia/ Pallor In	Effects of following	Manage anemic women on	Perform examination of	SGD, Self Directo	
Pregnancy	diseases on maternal and fetal outcome • Effects of pregnancy on following diseases	the basis of relevant investigations	 a patient with anemia Interpret the patterns of abnormality found on full blood count that are 	Learning Case presentation	on/ OPD

	Anaemia in pregnancy		 indicative of iron deficiency anemia, Beta thalassemia minor, B12 and folic acid deficiency anemia. Counsel a patient with Beta thalassemia trait. 		S A C s / N C C s
Hypertension and Proteinuria/ Eclampsia:		 Categorize a hypertensive patient in pregnancy according to standard classification Compare the principles of management of pre eclampsia with chronic essential hypertension. Critically appraise the drugs used in the management of pre eclampsia Identify the maternal and fetal complications of pre eclampsia and eclampsia 	 Perform following tests; Measure B.P using mercury sphygmomanometer Dipstick urine analysis Elicit ankle jerk and clonus Interpret following investigations Renal function tests Liver function tests Coagulation tests Urine microscopy, culture andsensitivity Analyze the ethical issues relevant to delivery of a baby for maternal versus fetal safety Counsel a patient concerning the 	SGD, Self Directed Learning Case presentation/ OPD	G S C E / S A C S / N C C S s

Diabetes Mellitus	Hypertension and proteinuria in pregnancy	 Evaluate the screening tests for diabetes in pregnancy Summarize the principles of management of Diabetes in pregnancy Compare and contrast effects on fetus and mother of Gestational Diabetes 	maternal and fetal complications associated with pre eclampsia and eclampsia Interpret lab tests used to screen Diabetes mellitus in pregnancy Check random blood sugar by glucometer Construct diet chart for a pregnant patient Counsel a pregnant patient the reason for screening for Diabetes in pregnancy and effects of poorly controlled Diabetes.	SGD, Self-Directed Learning Case presentation/ OPD	O S C E / S E C s / N C C s
Cardiac, Respiratory, Renal and Liver Disease		Compare and contrast effects of pregnancy in general on women with Cardiac, Respiratory, Renal and Liver disease	 Examine cardiovascular system of a pregnant patient Interpret RFT's and LFT's Counsel a pregnant woman about a medical disorder in pregnancy 	SGD, Self-Directed Learning Case presentation/ OPD/ Clinical Methods	C S C E / S A C S / N

	Diabetes mellitus in pregnancy				C C s
Obesity in pregnancy	• Cardiac, Respiratory, Renal and Liver disease	Compare and contrast effects of obesity on mother and fetus in pregnancy	Counsel a pregnant woman about complications of obesity in pregnancy and weight reduction by changing life style and diet	SGD, Self-Directed Learning Case presentation/ OPD/ Clinical Methods	O S O E S A O S / N O O S
Thyroid.	 Obesity Thyroid disease in pregnancy: Hypothyroidism Hyperthyroidism Autoimmune conditions and dermatological conditions 	 Compare and contrast effects of hypothyroidism and hyperthyroidism on mother and fetus in pregnancy Interpret TFT's. 	 Examine thyroid gland Counsel a pregnant patient with goiter 	SGD, Self-Directed Learning Case presentation/ OPD/ Clinical Methods	C S C E / S A C S / N C C S

Autoimmune Conditions and Dermatological Conditions		Appraise general effects of Autoimmune conditions and dermatological conditions on mother and fetus		SGD, Self-Directed Learning	C S C E / S A C S / N C C S s
Neurological Conditions	Epilepsy	Appraise general effects of epilepsy on pregnancy and effects of anti-epileptic medicines on the fetus	Counsel a pregnant patient with epilepsy	SGD, Self-Directed Learning Case presentation/ OPD/ Clinical Methods	O S C E / S A C S / N C C S

Drug and Alcohol Misuse/Smoking	Drug and alcohol misuse, Smoking	Appraise general effects of Drug and alcohol misuse, smoking on pregnancy and effects of drugs/alcohol on the fetus	Counsel a pregnant patient about effects of drug abuse/smoking on fetus	SGD, Self-Directed Learning Case presentation/ O Clinical Methods	PD/ ()
		III. HIGH RISK INTRA PATUM	1 EVENTS	I.	
Ante Partum Hemorrhage	 Differentiation of different causes of Ante partum hemorrhage Principles of management of: Placenta praevia Abruptio placentae Incidental bleeding 	 Draw a diagram showing position of placenta in major and minor placenta previa Compare and contrast symptoms and signs found in women with vaginal bleeding secondary to placental abruption and placenta previa Draw a flow chart of investigations for a patient with ante-partum hemorrhage 	 Insert large bore I/V cannula Interpret a hard copy of ultrasound image of pregnant uterus at greater than 24 weeks and identify site of placenta Counsel a woman whose baby has died following placental abruption 	Directed SA	CE/ Qs/ CQs

Pre-maturity and Post	Diagnosis and management	•	Evaluate the investigations and management of patients with ante-partum hemorrhage Differentiate between	0	Interpret a contractions	SGD, Self-	OSCE/
Maturity	of prematurity Principles of management of: Preterm pre-labour rupture of membranes Preterm labour IUD Postdates and post term pregnancy	•	Threatened preterm labour, Preterm pre-labor rupture of membranes and preterm labor Appraise the principles of diagnosis and management of Threatened preterm labor, Preterm pre-labor rupture of membranes and Preterm labor. Identify the causes of IUD Outline the management plan of IUD Differentiate between postdates and Post term pregnancy and appraise the policy of Induction of labor in each instance	0 0 0	 investigations: C Reactive proteins White Blood Cell count Fibronectin vaginal swab Anicardiolipin antibodies Urine culture sensitivities and microscopy 	Directed Learning Case presentation, Clinical Methods, ER	SAQs/ MCQs

Malpresentations Breech Presentation Transverse Lie Brow, Face and Shoulder Presentation Cord Presentation and Prolapse Compound Presentation Malpositions	Diagnosis and principles of management of: Breech presentation Transverse lie Brow, face and shoulder presentation Cord presentation and prolapse Compound presentation Malpositions Persistent occipitoposterior position Deep transverse arres	•	IV. MALPRESENTATIONS Appraise breech presentation, its incidence, predisposing factors, diagnosis and principles of management in the antenatal period and in labor Compare maternal and fetal outcomes in vaginal breech delivery with delivery by Elective Lower Segment Caesarean section Summarize the principles of diagnosis and management of Brow, Face and Shoulder	•	labor for Post Term pregnancy Demonstrate types of breech presentation on a mannequin Identify the fontanelles and diameters on a fetal skull. Assemble the Ventouse apparatus and explain the principles of its application Counsel a patient with breech presentation about external cephalic version Counsel a patient with breech presentation requesting vaginal delivery the pros and cons of vaginal breech	SGD, Self- Directed Learning Case presentation/ OPD	OSCE/ SAQ/ MCQ
		•	,				
		١	/. MULTIPLE PREGNANCY			,	
Multiple Pregnancy	Diagnosis and principles of management in multiple pregnancy and labor	•	Differentiate between monozygotic and dizygotic twins in terms of mechanism, diagnosis	•	Interpret a hard copy of ultrasound picture of twin pregnancy at 12 weeks gestation	SGD, Self- Directed Learning	SAQ/ MCQ/ OSCE

		•	and complications in antenatal period and labor Appraise the role of clinical examination and ultrasound examination in the diagnosis of multiple pregnancy Summarize the maternal and fetal complications in pregnancy and labor Appraise the principles of management in pregnancy and labor and how he/ she will determine zygosity at birth	•	Counsel a patient with twin pregnancy regarding her nutrition	Case presentation/OPD	
Intra Uterine Growth Restriction and Small for Gestational Age (IUGR/ SGA). Macrosomia	Differentiate between Intra Uterine Growth Restriction and Small for Gestational Age (IUGR/ SGA). Diagnosis and management of fetal Macrosomia	•	Differentiate between the terms Small for Gestational Age and Intrauterine Growth restriction Diagnose Intrauterine Growth Restriction through relevant history, clinical examination and ultrasound examination Distinguish between symmetrical and asymmetrical IUGR	•	Interpret plots on a fetal growth curve Counsel a patient of symmetrical IUGR regarding prenatal diagnosis and prognosis	SGD, Self Directed Learning Case presentation/ OPD	OSCE/ SAQ/ MCG

		•	Compare and contrast			
			etiological factors,			
			pathogenesis, principles			
			of management and			
			prognosis of symmetrical			
			and asymmetrical IUGR			
		•	Appraise how he/ she			
			will reach a diagnosis of			
			fetal Macrosomia			
		•	Summarize the maternal			
			and fetal complications			
			associated with this			
			condition and how best			
			to avoid them			
		LIQ	UOR VOLUME ABNORMALI		T	1
	Causes of oligohydramnios	•	Appraise the diagnosis	Interpret the largest single	SDL, SGD	SAQ/
Oligohydramnios and	and polyhydramnios		and the maternal and	vertical pool of liquor on a	Case	MCQ/
Polyhydramnios	Diagnosis and management		fetal conditions which	hard copy of an ultrasound	presentation/	OSCE
	of liquor volume		can cause	scan	OPD	
	abnormalities		polyhydramnios and	_		
			associated complications	Counsel a patient of		
		•	Categorize the causes of	polyhydramnios regarding		
			oligohydramnios	her discomfort with		
		•	Appraise the diagnostic	empathy		
			modalities and how the			
			etiological factors would			
			modify your			
			management			
		VII	I. BAD OBSTETRIC HISTORY			

Poor pregnancy outcome	Previous history of foetal loss and problems in early pregnancy	 Identify the possible causes of recurrent foetal losCritically appraise the factors leading to recurrent foetal loss and means to reduce it Outline the management plan 	Counsel a woman who has had a recurrent fetal loss	CBL/OPD	SAQ/ MCQ/ OSCE
Foetal infections	Foetal infections	Recognize possible causes of foetal infections		Lecture	SAQ/ MCQ/ OSCE
Hydrops Fetalis:	Principles of prevention and management of Rhesus incompatibility	 Distinguish between immune and non-immune causes of hydrops fetalis Draw a diagram showing the mechanism of Rhesus immunization Appraise how Rhesus immunization can be prevented 	 Calculate the right dose of anti D injection according gestational age and clinical conditions which dictates its use Counsel a rhesus negative woman who has delivered a rhesus positive baby the reasons why she needs anti-D injection with -in 72 hours of delivery 	SDL, SGD	SAQ/ MCQ/ OSCE
Obstatuisal Callana	T	IX. OBSTETRICAL EMERGENCIES		CDI Coss	CAC/
Obstetrical Collapse and Maternal resuscitation	Causes of obstetrical collapse Principles of diagnosis and management of obstetrical collapse	 Categorize the obstetric and non-obstetric causes of maternal collapse and explain the general principles of 	 Insert an airway Insert a large bore cannula Insert a Foleys catheter 	SDL, Case presentation/ ER	SAQ/ MCQ/ OSCE

		General specific SPECIFIC	 management of obstetric shock Apprise the principles of specific management of the following obstetric emergencies: Obstetric haemorrhage Eclampsia Cord Prolapse Obstructed labor LEARNING OBJECTIVES IN GYNAECOLOGY Interpret an input and output record Interpret FBC, Electrolytes, coagulation screen and Blood gases Monitor pulse, B.P, oxygen saturation, urinary output and conscious state Counsel a patient's relatives regarding the patient, the proposed management and prognosis 	Clinical Methods, Labour room Role plays	
S.No	Core Clinical Concepts/ Themes	Contents	Learning Objectives At the end of teaching session, the student should be able to Knowledge Skills/Attitude	Instructional Strategy	Assessm ent Tool
			I. PUBERTY & ADOLESCENCE		
1.	Puberty & Adolescence	 Concept of precocious and delayed puberty Adolescent Menorrhagia 	 Apprise the changes and their sequence of appearance at puberty and describe disorders of puberty like premature and delayed puberty Apprise the changes and hard copy of pelvic USG Counsel a young women with delayed puberty Apprise the malformations of uterus and vagina their 	Lecture/CBL/S DL/ bedside training	SAQ/ MCQ/ OSCE

2.	Drimary and	Drimary and secondary	· III.	examination and treatment. Describe the relationship of genital tract abnormalities with urinary tract abnormalities. SUBFERTILITY & CONTR. Differentiate between	ACE	PTION Take a history from	Lecture/CBL/S	SAQ/
2.	Primary and secondary subfertility	Primary and secondary subfertility: • Male factors • Female factors • ART Surgical intervention for subfertility	•	primary and secondary subfertility and devise a classification for the causes of subfertility Draw a graph of the changes in serum levels of estrogen, progesterone, LH and FSH during the menstrual cycle Identify women at risk of tubal damage Appraise the general principles of treatment of infertile couple	su •	couple presenting with bfertility Interpret the following: Female follicular phase hormonal profile Female luteal phase progesterone changes Male semen analysis Explain the principles of dealing with sensitivity and sympathetically with subfertile couple	DL/ bedside training	MCQ/ OSCE
3.	Contraception	 Mechanism of action/efficacy of contraceptives Physiological methods Reversible methods: Hormonal Intrauterine devices Barrier methods Permanent methods 	•	Categorize methods of contraception Discuss pros and cons of each with their failure rates and complications Distinguish between different modes / mechanism of action of different methods	•	Explain insertion of IUCD Counsel and explain the methods of use of oral Contraceptive pills Explain family planning in terms of social, cultural, economic and regional context	Lecture/CB L/SDL/ bedside training	SAQ/ MCQ/ OSCE

4.	Heavy Menstrual Bleeding	 Emergency Contraceptio WHO medical eligibility criteria Concept of hypothlamo- pituitary-ovarian- endometrial axis Principles of diagnosis and management of: Heavy menstrual bleeding Metorrhagia Abnormal uterine bleeding Post menopausal bleeding	Compare and contrast male and female sterilization III. MENSTRUAL DISORDERS Revise the hormonal changes in a menstrual cycle Formulate a flow diagram for the treatment of heavy menstrual bleeding. Differentiate between heavy menstrual bleeding and abnormal uterine bleeding/Metorrhagia List the causes of heavy and irregular menstruation Outline the management plan III. MENSTRUAL DISORDERS Take a detailed menstrual history Assist/ perform: Pap smear Pipelle endometrial biopsy Communicate with the patient with explanation of the condition, treatment options and complications.	SEQ/ MCQ/ OSCE
5.	Amenorrhea		 Distinguish primary from secondary amenorrhea Describe a scheme for classifying the causes of amenorrhea, based on the primary site of problem Devise a scheme of relevant and appropriate Calculate Body mass Index Should have observed and be able to describe: Transvaginal USG Pipelle endometrial biopsy Hysteroscopy Laparoscopy 	SEQ/ MCQ/ OSCE

6.	Post Menopausal Bleeding and Post coital bleeding		investigations to reach a diagnosis Appraise the principles of management available for: Hypothalamic dysfunction Pituitary dysfunction Outflow tract abnormalities Formulate a flow diagram of management of a woman with post menopausal bleeding/ Post coital bleeding	 Counsel a woman with amenorrhea. Describe the ethical issues relevant to the methods available to achieve pregnancy in women with amenorrhea e.g. oocyte donation. Should have observed and be able to describe: Transvaginal USG Pipelle endometrial biopsy 	Lecture/CBL/S DL/ bedside training	SAQ/ MCQ/ OSCE
	bieeuing			 Hysteroscopy Counsel a woman with post menopausal bleeding/ Post coital bleeding about the condition, management and prognosis 		
7.	PCOs	Diagnosis and management of Polycystic ovarian syndrome	Appraise the principles of management available for PCOs	Counsel a woman with PCOs about the condition, management and prognosis	Lecture/CBL/S DL/ bedside training	SAQ/ MCQ/ OSCE
			IV. MISCARRIAGES:			
8.	Miscarriages	Principles of diagnosis and managementSpontaneous miscarriage	Devise a classification of miscarriages	Take a relevant gynecological history in a woman complaining of	Lecture/CBL/S DL/ bedside training	SEQ/ MCQ/ OSCE

		 Recurrent miscarriage Gestational trophoblastic disease 	• • • • • • • • • • • • • • • • • • •	Differentiate between different types of spontaneous and induced abortions Critically appraise the treatment available for different types of abortions Formulate a list of investigations for recurrent pregnancy loss Appraise the principles of management of benign and malignant Trophoblastic disease	vaginal bleeding and/ or abdominal pain in early pregnancy • Identify a hard copy of USG for complete hydatiform Mole • Counsel a patient following a spontaneous abortion • Counsel a patient regarding follow up for benign Trophoblastic disease		
7.	Menopause and Osteoporosis:	Diagnosis and management of menopause and osteoporosis.	• // i i • // ((((((((((((((((((Appraise menopause and its causes Appraise the hormonal and physical changes that occur during climacteric Classify the symptoms of climacteric in to short term and medium term Critically apprise the different regimens of hormonal therapy and explain the reasons of why progesterones are used in post menopausal women who have a uterus	 Take a detailed history of climacteric problems and identify the risk factors for osteoporosis and cardiovascular disease Counsel a patient regarding menopausal issues and hormonal therapy 	Lecture/CBL/S DL/ bedside training	SEQ/ MCQ/ OSCE

			 Compare the risks and benefits of hormonal replacement therapy Evaluate the important risk factors for osteoporosis and cardiovascular disease VI. URINARY PROBLEMS: 				
9.	Urinary incontinence	 Urinary incontinence Detruser Instability Urodynamic Stress Incontinence overflow incontinence True Incontinence 	Classify urinary incontinence and differentiate between detruser instability and urodynamic stress incontinence Categorize the symptoms that are associated with: Urodynamic stress incontinence Detruser instability Voiding difficulty True incontinence Critically appraise the role of urodynamic investigations for the diagnosis of cause of urinary incontinence Appraise the principles of management of: Urodynamic stress incontinence Detruser instability Voiding difficulty Voiding difficulty	•	Identify a urodynamic trace Explain the taboos related to urinary incontinence.	Lecture/CBL/S DL/ bedside training	SAQ/ MCQ/ OSCE

10.	Urinary tract	Diagnosis and management	Outline the management plan	n	Take relevant histo	ry	Lecture		SEQ/
	infections	of UTIs	on the basis of its etiology		 Perform clinical examination 		DL/ bed		MCQ/ OSCE
			VII. UTEROVAGINAL PROLAPS	E:					
11.	Uterovagin al Prolapse:	Principles of diagnosis and management of uterovaginal prolapsed. Concept of POP-Q classification	 Differentiate between: Cystocele and urethrocele Rectocele and enterocele Vaginal vault prolapse and uterine prolapse. Classify the uterine prolapse according to severity Appraise the methods of treatment of uterovaginal prolapse and select factors that are important in the choice of best treatment 	•	Place a woman in Sim's position Should have observed the examination of prolapse Able to describe the uses of Sim's speculum Counsel a patient with uterovaginal prolapse	Lect L/SE bed train	side	SEQ/ N OSCE	1CQ/
		T	VIII. ABDOMINOPELVIC PAIN						
12.	Acute abdomino pelvic pain	Diagnosis and management of acute abdominal pain due to: • Ectopic pregnancy • Ovarian cyst accident • first trimester d miscarriage	 Categorize the causes of acute onset of pelvic pain Compare and contrast the signs and symptoms of ectopic pregnancy, ovarian cyst accident 	•	Take history and emanation of patient with acute abdomen The student should have observed and able to describe transvaginal pelvic ultrasound		ure/CBL/ side trair	-	SEQ/ MCQ/ OSCE

	Principles of diagnosis and management of chronic pelvic pain	 and first trimester d miscarriage Appraise the medical and surgical methods of treatment of ectopic pregnancy Construct a flow diagram of management of ovarian cyst presenting with acute pelvic pain 			
Chronic abdomino pelvic pain	 Chronic pelvic pain Dysmenorrhea Endometriosis Principles of diagnosis and management of endometriosis causing: Pelvic pain Infertility	 Categorize the gynaecological and non gynaecolgical causes of chronic pelvic pain Differentiate between primary and secondary dysmenorrhea and describe the differences in symptomatology of each Appraise the treatment available for primary dysmenorrhea Point out the investigations that may be undertaken for chronic pelvic pain and explain the reasons for each. 	The students should have observed and be able to describe the following procedures: • Laparoscopy • TVS P3 Counsel and explain a patient the reasons for laparoscopy in the management of her pelvic pain. A3	Lecture/CBL/SDL/ bedside training	SEQ/ MCQ/ OSCE

			 Explain what is meant by endometriosis along with theories of its etiology and possible associated signs and symptoms. Appraise the medical and surgical treatment available for endometriosis. Evaluate the policy of laparoscopy for all women with chronic pelvic pain. IX. GENITAL TRACT INFECTION 	TIONS:		
13.	Vaginal Discharge/ Lower genital tract infections	Concept of etiological factors, clinical diagnosis and management of: Vaginal Discharge Lower genital tract infections	 lassify the causes of vaginal discharge Describe the physiology, pathology and clinical picture of various types of vaginal discharge Summarize methods of diagnosis of various types of vaginal discharge 	 Elicit a sexual history from a patient giving consideration to the ethical and communication skills aspect. Take HVS Outline the issues of confidentially 	Lecture/CBL/SDL/ bedside training	SEQ/ MCQ/ OSCE
14.	Upper genital tract infections	Concept of etiological factors, clinical diagnosis and management of: Upper genital tract infections	Appraise the symptoms of presentation, criteria of diagnosis, relevant investigations and	 Interpret lab report of: Urine examination HVS 	Lecture/CBL/SDL/ bedside training	SEQ/ MCQ/ OSCE

			principles of treatment as									
			well as prevention of PID									
	L	X. GYI	AECOLOGICAL TUMORS/SEXUAL DISORDERS:									
15.	Benign	Benign: • Fibroid uterus • Benign tumors of Ovary	Appraise the epidemiology, etiology, hard copy of USG. Lecture/CBL/SDL/bedside training	SAQ/ MCQ/ OSCE								
	Malignant	 Malignant: Cervical cancer Endometrial cancer Ovarian cancer Screening of gynecological cancer Prevention Radiotherapy and chemotherapy for uterine and ovarian cancers 	 Appraise the management of important gynaecological cancers namely: Cervical squamous carcinoma, Endometrial adenocarcinoma, Surface epithelial tumors of ovary , Vulval & vaginal cancers along with their basic clinical pathology including principles of tumors staging. Perform a cervical smear. Explain the significance of pap smear result and appropriate management. 	SAQ/ MCQ/ OSCE								

disorders	 Sexually transmitted infections(HIV) Sexual dysfunction disorders 	 Interpret the investigations of patient with sexually transmitted disease Appraise the management of sexually transmitted infections(HIV) and sexual dysfunction disorders 	Counsel a woman with sexually transmitted disease and sexual dysfunction disorders		
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Procedural skills to be acquired in clinical training:

Year III &IV

Level of Competency	Procedure
Observe or ideally assist	Female Urinary catheterization
Observe or ideally assist	Passage of Nasogastric Tube
Observe or ideally assist	Surgical Dressing
Observe or ideally assist	Preparation of iron sucrose solution
Observe or ideally assist	Removal of sutures
Performs under direct supervision	Intra Muscular Injection
Performs under direct supervision	Subcutaneous Injection
Performs under direct supervision	Obstetrical examination
Performs under direct supervision	Intravenous Line

<u>Year V</u>

Level of Competency	Procedure
Observe or ideally assist	Female Urinary catheterization
Observe or ideally assist	Passage of Nasogastric Tube
Observe or ideally assist	Surgical Dressing
Observe or ideally assist	Preparation of iron sucrose solution
Observe or ideally assist	Removal of sutures
Observe or ideally assist	MVA
Observe or ideally assist	Pip Pele
Observe or ideally assist	HSG
Observe or ideally assist	Conduct of delivery
Observe or ideally assist	Stitching of episiotomy

Observe or ideally assist	Scrubs and assists in C-section, hysterectomy
	and laparotomy
Observe or ideally assist	Wound closure(skin)
Observe or ideally assist	Performing CTG and its interpretation
Observe or ideally assist	Vaginal placement of prostaglandins
Observe or ideally assist	Cervical Foley
Observe or ideally assist	Trans abdominal and vaginal Ultrasound
Observe or ideally assist	Assisted Vaginal delivery
Observe or ideally assist	Cervical and vulval biopsy
Observe or ideally assist	Vaginal packing of UG prolapse
Observe or ideally assist	Bimanual uterine massage
Observe or ideally assist	Balloon tamponede
Observe or ideally assist	Colposcopy
Performs under direct supervision	Intra Muscular Injection
Performs under direct supervision	Subcutaneous Injection
Performs under direct supervision	Obstetrical examination
Performs under direct supervision	Intravenous Line
Performs under direct supervision	HVS
Performs under direct supervision	Pap smear
Counsel and demonstrate	Position for breast feeding

<u>FINAL PROFESSIONAL MBBS EXAMINATION (GYNAE PAPER – I) (2020)</u> OBSTETRICS & GYNAECOLOGY

Time Allowed =03 hrs. (Including MCQs)

Marks of theory paper =90
Internal assessment =10
Total marks =100
Pass Marks =50

45 x MCQs (45 Marks) Time =50 min

Q. No. 1,2,3,4,5,6,7,8,9

9x SAQs/SEQs (Application) = 05 marks each

Total Marks = 45 Marks Time = 2 hours & 10 min

Topic	NUMBER OF MCQs (45) Applications (45) (01 marks each)	NUMBER OF SAQs/SEQs (09) Applications (05 marks each)			
Physiological changes in pregnancy	02	0			
Preconception care	01	01			
Antenatal care	03	0			
Normal Labor	02	0			
Abnormal Labor	02	0			
Medical Disorder	06	02			
Pre term labor+ PROM	02				
АРН	01	01			
Maternal Collapse	01				
Malpresentations	02	0			
Multiple Pregnancy	02	0			
Liquor Abnormaliliteis	02	0			
Fetal Growth Restriction	03	01			
BOH/Recurrent Fetal Loss	03	01			
Assessment of fetal well being	02	0			
Role of imaging	01	0			
Prenatal diagnosis	01	0			
Infections in pregnancy	02	01			
Puerperal disorders	02	01			
Obstetric emergencies	04	01			
Mental Health in pregnancy	01	0			
Total	45 (45)	09 (45)			

FINAL PROFESSIONAL MBBS EXAMINATION (GYNAE PAPER – II) (2020) OBSTETRICS & GYNAECOLOGY

Final Professional Examination

TABLE OF SPECIFICATION (THEORY):-

Time Allowed = 03 hrs (including MCQs)

Total Marks = 90
Internal Assessment = 10
Maximum Marks = 100
Pass Marks = 50

Note: a. All Questions are compulsory

b. Attempt MCQs on separate sheet provided

Part A

Q.No.1 45 x MCQs (on separate sheet) (Time = 50 minutes)

Part B

09 x SAQ/SEQ (Time = 2 hours 10 minutes)

Topic	MCQs (45) (Applications) <u>Part A</u> (01 marks each)	SAQ/SEQ (09) (Applications) <u>Part B</u> (05 marks each)
Anatomy and Embroyology	01	0
Puberty & Adolescence	04	0
Menstrual Disorders	04	01
Subfertility & Reproductive Endocrinology	04	01
Bleeding in early Pregnancy (Abortion Ectopic/Molar Pregnancy	05	01
Menopause, Osteoporosis & MHT	04	01
Uterovaginal Prolapse	02	0
Urogynaecology	02	01
Pelvic Pain	02	01
Genital Tract Infections	04	0
Benign Diseases of Genital Tract	04	01
Malignant Diseases of Genital Tact	04	01
Contraception	04	01
Endometriosis	01	0
Total	45 (45 Marks)	09 (45 Marks)

Proposed Table of Specification for 2020 Clinical Examination Gynae/Obstetrics - OSCE Practical

Max Marks = 180 Internal Assessment = 20 Grand Total = 200 Pass Marks = 90

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INTERNAL ASSESSMENT CALCULATION FOR THEORY PAPER

Internal Assessment								
Periodical class tests / End of module /rotation exam	20 Marks							

INTERNAL ASSESSMENT CALCULATION FOR PRACTICAL

Internal Assessment	
Log book/CBL performance/ End of module /rotation practical Exam/OSCE/ Workshop	20 Marks