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DEPARTMENT OF OBSTET. & GYNAECOLOGY

M.S Gynaecology and Obstetrics

Syllabus for Paper I

Basic Science as related to Obstetrics &Gynaecology

MSGO-01

Maximum Marks 100.

Basic sciences applicable in the topics of syllabus of Obst.&Gynae in paper II and III.
Additional topics are as below.

1. Molecular Biology and Genetics.
2. Preventive Healthcare and Screening
3. Clinical Research.
4. Immunology in relation to Obst. &Gynae.



DEPARTMENT OF OBSTET. & GYNAECOLOGY

**M.S Gynaecology and Obstetrics
Syllabus for Paper II**

**(Obstetrics)
MSGO-02.**

Maximum Marks 100.

1. Maternal Anatomy
2. Implantation, Embryogenesis & placental development.
3. Fetal growth & development.
4. Physiological changes during pregnancy
5. Diagnosis of pregnancy
6. Screening for Neural – Tube Defects ,Down Syndrome and Heritable Genetic Diseases
7. Prenatal diagnosis and Fetal Therapy
8. Genetics in relation to Obstetrics-genetic/chromosomal disorders
9. Preconceptional counseling.
10. Prenatal care
11. Abortion
12. Ectopic Pregnancy
13. Gestational trophoblastic diseases
14. Teratology and medications that affect the fetus.
15. Antepartum Assessment
16. Imaging in Obstetrics.
17. Parturition- Anatomy and Physiology
18. Normal Labour and Delivery
19. Intra Partum Assessment
20. Obstetrical Anesthesia
21. Abnormal Labour – Abnormal Uterine Action , Occipito posterior , Shoulder Presentation, Face and Brow, Cord Presentation with Cord Prolapse, Breech Presentation and delivery.
22. Shoulder Dystocia.
23. Disorders of Amniotic fluid volume
24. Labour Induction
25. Operative Vaginal Delivery
26. Caesarean delivery and Peri Partum Hysterectomy
27. Vaginal Delivery after Caesarean Section (VBAC).
28. Abnormalities of the placenta ,Umbilical Cord and Membranes.
29. The New Born Infant including resuscitation.
30. Neonatal complications of the Pre Maturity.
31. Meconium Aspiration
32. Still Birth
33. Diseases and Injuries of the fetus and New Born.
34. Normal Puerperium
35. Abnormal Puerperium
36. Hypertensive Disorders in Pregnancy

37. Obstetrical Hemorrhage –APH, PPH, PLACENTA ACCRETA, INCRETA, PERCRITA, Rupture Uterus and Other Injuries of the Birth Canal.
38. Complications of the Third Stage of Labor- Inversion of Uterus, Retained Placenta and Third Stage Hemorrhage.
39. Preterm Labour and Delivery
40. Premature rupture of membrane
41. Post Term Pregnancy and Post Maturity
42. Intra Uterine Fetal Growth Restriction
43. Fetal Macrosomia
44. Multi Fetal Gestation
45. Reproductive Tract abnormalities
46. Critical Care and Trauma in relation to Obstetrics
47. Obesity with Pregnancy
48. Cardio Vascular Diseases and Pregnancy
49. Chronic Hypertension and Pregnancy
50. Pulmonary disorder and Pregnancy
51. Thromboembolic disorders and Pregnancy
52. Renal and Urinary tract disorder and Pregnancy
53. Gastrointestinal Disorder and Pregnancy
54. Hepatic, Gallbladder and Pancreatic disorders and Pregnancy
55. Hematological Disorders and Pregnancy
56. Rh-incompatibility in Pregnancy
57. Diabetes and Pregnancy.
58. Thyroid and other Endocrine disorder and Pregnancy
59. Connective Tissue disorders and Pregnancy
60. Neurological and Psychiatric disorders and Pregnancy
61. Dermatological disorders and Pregnancy
62. Neoplastic diseases and Pregnancy
63. Infectious Diseases and Pregnancy including TORCH
64. Sexually transmitted diseases and Pregnancy
65. Contraception
66. Tubal Sterilization & NSV.
67. Safe Motherhood Programme run by GOI- EmOC Programme of GOI, JSY, JSSK
68. HIV in Pregnancy and PPTCT Programme, STI / RTI Programme.

DEPARTMENT OF OBSTET. & GYNAECOLOGY
M.S Gynaecology and Obstetrics
Syllabus for Paper III
(Gynaecology)
MSGO-03

Maximum Marks 100.

1. Anatomy of Female Genital tract with special emphasis on Surgical Anatomy.
2. Development of female Genital Tract and Malformation resulting because of Mal Development.
3. Reproductive Physiology.
4. General Gynaecology
 - i. Benign Diseases of the female reproductive tract.
 - (a) **Vulva** – Skin Conditions , Pigmented lesions, Tumors and Cysts, Ulcers, Nonneoplastic epithelial disorder.
 - (b) **Vagina- Embryonic Origion**(Mesonephric , Para Mesonephric and Urogenital sinus cyst, Adenosis, Vaginal Septa or duplication).
 - (c) **Pelvic Organ Prolapse / Disorder of Pelvic Support.**
 - (d) **Others** (Condyloma, Urethral Diverticula, Fibroepithelial polyp, Vaginal Endometriosis).
 - (e) **Cervix** (Infectious- Condyloma, HSV, Chlamydial Cervicitis and Others) (Others- Endocervical Polyps, Nabothian Cyst, Columnar Epithelial Eversion).
 - (f) **Benign Ovarian Tumor** (Functional, Inflammatory, Neoplastic, Epithelial , Others)
 - ii. Uterine Fibroids.
 - iii. Pelvic Pain and Dysmenorrhea
 - iv. Endometriosis
 - v. Genito Urinary infection and STD
 - vi. Intra Epithelial Diseases of the Cervix , Vagina and Vulva.
 - vii. Benign Breast Diseases
5. UroGynaecology and Pelvic Reconstructive Surgery.
 - i. Lower Urinary tract disorders
 - ii. Pelvic organ prolapse
 - iii. Anorectal Dysfunction

6. Reproductive Endocrinology.

- i. Puberty
- ii. Amenorrhea
- iii. Endocrine Disorders
- iv. Infertility and Assisted Reproductive Technology
- v. Recurrent Pregnancy loss
- vi. Menopause

7. Gynaecological Oncology.

- i. Uterine Cancer
- ii. Cervical & Vaginal cancer
- iii. Ovarian fallopian tube & Peritoneal Cancer
- iv. Vulvar Cancer
- v. Gestational trophoblastic disease
- vi. Breast Cancer

8. Radiotherapy and Chemotherapy in Gynaecology.

9. Contraception.

10. Operative Gynaecology

- i. Pre-Operative Evaluation and Post Operative Management
- ii. Gynaecological Endoscopy
- iii. Hysterectomy
- iv. Myomectomy
- v. Surgery for Benign Ovarian Condition
- vi. Tubal Recanalization
- vii. Surgery for Genital fistula
- viii. Surgery for Pelvic Organ Prolapse
- ix. Surgery for stress incontinence
- x. Surgery for Vagina and Urethral condition
- xi. Surgery for Vulva and Vestibule
- xii. Radical Surgery for different Malignancy
- xiii. Robotic Operations

DEPARTMENT OF OBSTET. & GYNAECOLOGY

M.S Gynaecology and Obstetrics
Syllabus for Paper IV
(Recent Advances)
MSGO-04

Recent advances in relation to all the topics mentioned in syllabus of
Obst. & Gynaecology in Paper II & III.

Approved by Board of Studies on 22-03-2014.

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DEPARTMENT OF OBSTET. & GYNAECOLOGY

M.S Gynaecology and Obstetrics

Model Paper I

(Basic Sciences as related to Obst.&Gynaecology)

MSGO-01

Maximum Marks-100

Time-3 hours

Instructions for the Candidates-

1. Draw the diagram & flow charts where ever applicable.
2. The main points may be highlighted.

Q.1. How do you calculate BMI? What are the different ranges of BMI? What is its relevance in Obstetrics & Gynecology? 15 (2+3+10)

Q.2. How fluid & electrolyte balance is maintained in post-operative period? How do you detect fluid overload? 15 (10+5)

Q.3. Describe the vascular anatomy of anterior abdominal wall in relation to site of port insertion. 15

Q.4. Give the reason for the following- 25 (5x5)

- a) Why there is infertility in endometriosis?
- b) Why there is hirsutism in PCOD?
- c) Why there is bleeding in placenta previa?
- d) Why PPROM before 24 weeks need to be terminated?
- e) How B-Lynch helps in atonic PPH?

(58)

(62)

Q.5. Write in brief-

30 (10x3)

- a) Pathogenesis of pregnancy induced hypertension.
- b) Pathogenesis of DIC.
- c) Tumor markers of germ cell tumor & their basis for testing.

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DEPARTMENT OF OBSTET. & GYNAECOLOGY

M.S Gynaecology and Obstetrics

Model Paper II

(Obstetrics)

MSGO-02

Maximum Marks 100

Time: 3 Hours

Instructions For The Candidates—

1. Draw the diagram & flow charts where ever applicable.
2. The main points may be highlighted.

Q.1. A 26 years old G3P1+1 at 32 weeks of pregnancy reports in emergency with history of bleeding P/V for the past four hour. Bleeding is slight in amount & this is her first such episode. She also has an ultrasound report done an hour back which confirms 32 weeks of viable gestation with complete placenta previa having intraplacental venous lake. Answer the following related to this patient-

- a) What further investigations will be done in this case?
- b) How will you manage this case? 20 (10+10)

Q.2. A primigravida is in second stage of labor for the past 2 hours & is exhausted now. You have assessed her & found fit for ventouse application. Ventouse was applied & head delivered but shoulder failed to deliver. Answer the following questions in this case-

- a) What should be done first in this case to deliver shoulders? What will be your other maneuver to deliver the baby?
- b) If all fails then what will you do? 20 (5+10+5).

Q.3. How will you manage a known case of Mitral Stenosis with pregnancy? Your answer should be in the following heads-

- a) During pregnancy.
- b) During labor
- c) During puerperium. 20 (8+8+4).

Q.4. Give the reason-

- a) In a case of severe pre-eclampsia, pregnancy should be terminated.
- b) Severe anemia with pregnancy at term should be given packed cell transfusion.
- c) Molar pregnancy following evacuation need to be followed up.
- d) Rh negative ANC should receive anti D injection between 28 to 32 weeks of gestation. 20 (5x4)

Q.5. Write in brief-

- a) Screening for GDM
- b) Diagnosis of anencephaly. 20 (10+10)

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DEPARTMENT OF OBSTET. & GYNAECOLOGY

M.S Gynaecology and Obstetrics

Model Paper III

(Gynaecology)

MSGO-03.

Maximum Marks 100

Time: 3 Hours

Instructions for The Candidates—

1. Draw the diagram & flow charts where ever applicable.
2. The main points may be highlighted.

Q.1. A 9 year old girl comes to you with H/O lump in abdomen for the past 4 months. On examination it was found to be arising from pelvis. Answer the following questions about this case-

- a) What are the causes of pelvic mass in the pre-pubertal girl?
- b) How will you establish a diagnosis?
- c) What are the management protocol for such cases?

20 (5+5+10)

Q.2. A 32 years old nulligravida comes to you with USG diagnosed fibroid. She C/O inability to conceive since 5 years of her marriage. Answer these questions-

- a) Enumerate the investigations you will offer to her.
- b) What factors will decide the possibility of offering her surgery for fibroid?
- c) What will help you decide further, what type of myomectomy to be done upon her?

20 (5+5+10)

Q.3. How FIGO staging for carcinoma of the cervix is done? Draw a diagram to show different stages of carcinoma cervix.

20 (10+10)

Q.4. Write in brief-

- a) Treatment of Androgen Insensitivity Syndrome
- b) TVT for stress urinary incontinence.

20 (10+10)

Q.5. Give the reason-

- a) Why should we treat PCOS in adolescent girl?
- b) Why should we do IUI in ovulation induction cases?

20 (10+10)

DEPARTMENT OF OBSTET. & GYNAECOLOGY

M.S Gynaecology and Obstetrics

Model Paper IV

(Recent Advances)

MSGO-04

Maximum Marks-100

Time-3 hours

Instructions for the candidates-

- 1. Draw the flow chart & diagrams wherever applicable.
- 2. Main points may be highlighted.

Q.1. What are the Biochemical markers for screening of Down's syndrome in first trimester? Describe each one of them.

15 (5+10)

Q.2. What is International Diabetes In Pregnancy Study Group(IADPSG) strategy for detecting hyperglycemia in pregnancy? What are the role of oral hypoglycemic agents in GDM?

15 (10+5)

Q.3. What is painful bladder syndrome? What are the investigations done for this condition? How will you manage?.

15 (5+5+5)

Q.4. What are the principle of Robotic Assisted surgery in Gynecology? Enlist various indications in gynecology. What are the advantages of Robotic surgery over conventional endoscopy?

15 (5+5+5)

Q.5. Write in brief-

- a) Recent development in Cu T 380 A device.
- b) Role of AMH as a marker of ovarian reserve.
- c) HAEMOSTASIS algorithm for management of PPH.
- d) Role of rescue circlage.

40 (10x4)

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OFFICE OF THE REGISTRAR
ACADEMIC SECTION
A.M.U. ALIGARH

No. Acad/D-333/HZ

DATED: 12.05.2016

NOTICE

A Special Meeting of the Board of Studies of the Department of Obst. & Gynaecology will be held on 17.05.2016 at 02:30 p.m. in the Seminar Room of the Department.

Members are requested kindly to make it convenient to attend the meeting.

AGENDA

1. Appointment of Examiners for Re-evaluation of Answer Book for M.S. & D.G.O.
2. To discuss the Curriculum & Syllabus of MBBS, M.S. & D.G.O.
3. To discuss Revised Log Book of PGs.
4. Introduction of short research project (02 months duration) for D.G.O.


 (S. RUHUL KABIR)
 Assistant Registrar
 (Academic)
 12-5-16

DISTRIBUTION:

1. Dean, Faculty of Medicine
2. Chairperson, Department of Obst. & Gynaecology
3. All members of the Board of Studies through the Chairperson
4. P.S. to Registrar.