

[LC 0413]

APRIL 2013

Sub. Code:3002

**FELLOWSHIP IN ULTRASOUND (OBGYN)- DEGREE EXAMINATION
FIRST YEAR
PAPER – II BASIC SCIENCES RELATED TO ULTRASOUND
(Embryology, Anatomy, Physiology of Reproductive system, Pathology and Clinical
aspects of Obstetrics and Gynaecology)
Q.P. Code: 233002**

Time: 3 hours

Maximum: 100 marks

I. Essay:

(2X20=40)

1. What is the role of ultrasound in Diabetes complicating pregnancy
2. Explain the physiology of fetal and umbilical circulation and role of Doppler flow studies in assessment of fetal well being.

II. Write short notes on:

(10X6=60)

1. Development of gastrointestinal tract and anomalies
2. Etiology clinical presentation and ultrasound diagnosis of hydatidiform mole
3. Diagnosis of fetal growth restriction
4. Etiology of pre eclampsia in pregnancy
5. Diagnosis and management of non immune hydrops fetalis
6. Pregnancy of unknown location
7. Twin to twin Transfusion syndrome
8. Changes in the cervix uteri and its relationship to pre term labour.
9. Cardio toco graphy.
10. Abnormal uterine bleeding – etiology and pathology.

[LE 0414]

APRIL 2014

Sub. Code: 3002

FELLOWSHIP IN ULTRASOUND (OBGYN)

FIRST YEAR

PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND

**(Embryology, Anatomy, Physiology of Reproductive System, Pathology
and Clinical aspects of Obstetrics and Gynaecology)**

Q.P. Code : 233002

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Explain the pathophysiology of pre eclampsia in pregnancy and debate the role of ultrasound in screening for pre eclampsia in pregnancy.
2. What is Rhesus incompatibility? Discuss the fetal complications

II. Write Short Notes on:

(10 x 6 = 60)

1. Detection and management of unruptured tubal ectopic pregnancy.
2. Placenta previa and its clinical presentation.
3. Congenital uterine anomalies.
4. Fetal macrosomia.
5. Biochemical and ultrasound diagnosis of early pregnancy.
6. Anatomy of the fetal heart.
7. Evaluation of tubal patency.
8. Physiology of ovulation.
9. Evaluation of utero placental circulation.
10. Role of ultrasound in evaluation of post menopausal bleeding.

[LF 0414]

OCTOBER 2014

Sub. Code: 3002

FELLOWSHIP IN ULTRASOUND (OBGYN)

FIRST YEAR

(Candidate admitted 2013-2014)

PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND

**(Embryology, Anatomy, Physiology of Reproductive System, Pathology
and Clinical aspects of Obstetrics and Gynaecology)**

Q.P. Code : 233002

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. What are the factors that need to be looked at when considering the teratogenic effect of a medication? Discuss the teratogenic potential of antiepileptic drugs how you may minimize them?
2. Describe the structure of the placenta. How does failure of certain changes in placental structure impact pregnancy outcome?

II. Write Short Notes on:

(10 x 6 = 60)

1. PCOS.
2. Approach to bleeding in late pregnancy.
3. Blood supply to the uterus.
4. Embryological development palate.
5. What are the uterine fibroids? and how to classify them.
6. The nine weeks fetus.
7. APLA – diagnosis and risks in pregnancy.
8. Role of ultrasound in the management of an ectopic pregnancy.
9. Causes of post menopausal bleeding and initial evaluation.
10. Routine tests in pregnancy and their rationale.

FELLOWSHIP IN ULTRASOUND (OBGYN) EXAMS

FIRST YEAR

(Candidates admitted 2013-2014)

**PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND
(EMBRYOLOGY, ANATOMY, PHYSIOLOGY OF REPRODUCTIVE SYSTEM,
PATHOLOGY AND CLINICAL ASPECTS OF OBSTETRICS
AND GYNAECOLOGY)**

Q.P. Code: 233002

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Describe the main events in the embryological development of the human heart.
2. Discuss the evaluation of bleeding in early pregnancy. How will ultrasound help manage this problem?

II. Write notes on:

(10 x 6 = 60)

1. Formation of the spinal cord.
2. Diagnosis of ectopic pregnancy.
3. Classification of medication in terms of teratogenic risk with examples.
4. Placental changes in early onset preeclampsia.
5. What is pregnancy of unknown location and what is the approach to management?
6. What is Biophysical profile and its value?
7. Classification of uterine malformations.
8. Benign cystic teratomas of ovary.
9. Haematological changes in pregnancy and how they may increase anemia?
10. Pathological patterns in abnormal uterine bleeding.

[LH 0413]

OCTOBER 2015

Sub. Code:3002

**FELLOWSHIP IN ULTRASOUND (OBGYN) - DEGREE EXAMINATION
FIRST YEAR**

(Candidates admitted 2012-2013 onwards)

**PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND (EMBRYOLOGY,
ANATOMY, PHYSIOLOGY OF REPRODUCTIVE SYSTEM, PATHOLOGY
AND CLINICAL ASPECTS OF OBSTETRICS AND GYNAECOLOGY)**

Q.P. Code: 233002

Time: 3 hours

maximum: 100 marks

I. Elaborate on:

(2X20=40)

1. Name the common teratogens & their effects on the fetus.
2. Discuss the causes & implications of Pregnancy Induced Hypertension.

II. Write notes on:

(10X6=60)

1. Write about the vascular anatomy of the uterus & ovaries.
2. Discuss the role of oestrogen & progesterone in regulation of the menstrual cycle.
3. Dysfunctional uterine bleeding – Etiology and pathology.
4. Causes of bleeding in first trimester of pregnancy.
5. Write briefly about endometriosis.
6. What is adenomyosis? Describe the clinical features & symptoms.
7. Write about vesicular mole.
8. Development of gastrointestinal tract and anomalies.
9. Discuss about Rh isoimmunisation.
10. Discuss the causes and types of placenta previa.

[LI 0416]

APRIL 2016

Sub. Code: 3002

**FELLOWSHIP IN ULTRASOUND (OBGYN) EXAMS
FIRST YEAR
PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND
(EMBRYOLOGY, ANATOMY, PHYSIOLOGY OF REPRODUCTIVE
SYSTEM, PATHOLOGY AND CLINICAL ASPECTS OF OBSTETRICS
AND GYNAECOLOGY)**

Q.P. Code :233002

Time : Three hours

Maximum : 100 Marks

I. Elaborate on :

(2 x 20 = 40)

1. Discuss the embryology of the fetal face and list the common developmental Anomalies.
2. Write about Gestational Diabetes Mellitus and its complications in the various trimesters of pregnancy.

II. Write notes on:

(10 x 6 = 60)

1. Classify uterine anomalies with diagrams.
2. PCOS – What are the signs and symptoms?
3. List the causes of Post – menopausal bleeding.
4. Write short notes on Endometrial Polyps.
5. Corpus Luteum and its functions.
6. Normal Physiology of Menstruation.
7. Ligamental attachments of the uterus.
8. Write about physiological Omphalocele.
9. Mention the Pelvic Masses commonly seen in the first trimester of pregnancy.
10. What are the risk factors and clinical features of ectopic pregnancy?

[LJ 1016]

OCTOBER 2016

Sub. Code: 3002

**FELLOWSHIP IN ULTRASOUND (OBGYN) EXAMS
FIRST YEAR
PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND
(Embryology, Anatomy, Physiology of reproductive
system, Pathology and clinical aspects of
Obstetrics and Gynaecology)**

Q.P. Code: 233002

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Ectopic gestation.
2. Fetal intestinal obstruction.

II. Write notes on:

(10 x 6 = 60)

1. USG features of gestational diabetes mellitus.
2. Development of placenta.
3. Ovarian torsion.
4. Fetal hydrops.
5. Fetal hydrocephalus – role of ultrasound.
6. Cleft lip and palate in fetus – role of ultrasound.
7. Fibroids complicating pregnancy – role of ultrasound.
8. Fetal biometry.
9. Multiple gestation – role of ultrasound.
10. Primary amenorrhoea.

[LK 0517]

MAY 2017

Sub. Code: 3002

**FELLOWSHIP IN ULTRASOUND (OBGYN) EXAMS
FIRST YEAR
PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND**

Q.P. Code: 233002

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Development of cardiovascular system.
2. Normal physiology of menstruation.

II. Write notes on:

(10 x 6 = 60)

1. Gestational diabetes.
2. Placental anomalies.
3. Fetal biophysical profile.
4. Uterine anomalies.
5. Ovarian torsion.
6. Multiple gestation.
7. Omphalocele.
8. Doppler evaluation of fetal IUGR.
9. Pelvic inflammatory disease.
10. USG evaluation of first trimester.

[LL 1017]

OCTOBER 2017

Sub. Code: 3002

**FELLOWSHIP IN ULTRASOUND (OBGYN) EXAMS
FIRST YEAR
PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND**

Q.P. Code: 233002

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Role of Doppler flow studies in assessment of fetal well being.
2. Write on development of the placenta and fetal membranes with note on placental anomalies.

II. Write notes on:

(10 x 6 = 60)

1. Causes of post menopausal bleeding and management.
2. Ultrasound evaluation of a patient referred for primary infertility.
3. Polycystic ovarian syndrome.
4. Diagnosis and follow up of gestational trophoblastic disorders.
5. Sonography of ectopic pregnancy and management.
6. Role of ultrasound in diabetes complicating pregnancy.
7. Omphalocele.
8. Cardiotocography.
9. Fetal bio-physical profile.
10. Physiology of menstruation.

[LN 1018]

OCTOBER 2018

Sub. Code: 3002

**FELLOWSHIP IN ULTRASOUND (OBGYN) EXAMS
FIRST YEAR
PAPER II – BASIC SCIENCES RELATED TO ULTRASOUND
(EMBRYOLOGY, ANATOMY, PHYSIOLOGY OF REPRODUCTIVE
SYSTEM, PATHOLOGY AND CLINICAL ASPECTS OF OBSTETRICS
AND GYNAECOLOGY)**

Q.P. Code :233002

Time : Three hours

Maximum : 100 Marks

I. Elaborate on :

(2 x 20 = 40)

1. Development of Respiratory system.
2. Physiology of fetal circulation in detail.

II. Write notes on:

(10 x 6 = 60)

1. Chorionicity and Amnionicity.
2. Development abnormalities of placenta.
3. Pelvic endometriosis–USG evaluation.
4. Primary amenorrhea USG evaluation.
5. Types of twinning with diagram in detail.
6. USG of gestational trophoblastic Neoplasia.
7. Imaging of Fetal heart.
8. Abnormal uterine bleeding.
9. First Trimester complications.
10. RH incompatibility USG diagnosis.
