

[LJ 1016]

OCTOBER 2016

Sub. Code: 0412

**FELLOWSHIP IN MEDICAL GENETICS EXAMS
SECOND YEAR
PAPER VI – RECENT ADVANCES**

Q.P. Code :230412

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: (2 x 20=40)

1. Describe three molecular methods now used to identify Autosomal recessive disorders.
2. Pre – Implantation genetic diagnosis.

II. Write notes on: (10 x 6 = 60)

1. Enzyme replacement therapy.
2. Zika virus.
3. Gene therapy.
4. Radiation effects on DNA.
5. Combined first trimester antenatal screening.
6. Pre-marital counselling.
7. Internet tools in genetic diagnosis.
8. Human Genome diversity project.
9. Pharmacogenetics in cancer.
- 10.3 – DNA baby.

[LL 1017]

OCTOBER 2017

Sub. Code: 0412

**FELLOWSHIP IN MEDICAL GENETICS EXAMS
SECOND YEAR
PAPER VI – RECENT ADVANCES**

Q.P. Code: 230412

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Pre-implantation genetic screening.
2. Enzyme replacement therapy.

II. Write notes on:

(10 x 6 = 60)

1. Embryonic stem cells.
2. Cloning.
3. Fetal DNA testing.
4. Null allele.
5. Pre-conception genetic counseling.
6. 1000 Genome Project.
7. Single nucleotide polymorphism.
8. Exon skipping.
9. UV radiation and cancer.
10. Chromosomal microarray.

[LN 1018]

OCTOBER 2018

Sub. Code: 0412

FELLOWSHIP IN MEDICAL GENETICS EXAMS
SECOND YEAR
PAPER VI – RECENT ADVANCES

Q.P. Code :230412

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20=40)

1. Explain the molecular basis of cancer.
2. Define gonadal mosaicism and discuss its effects on genetic analysis and testing.

II. Write notes on:

(10 x 6 = 60)

1. Genetics of cystic fibrosis.
2. Structure of human gene.
3. RT-PCR.
4. Thalassemia.
5. Radiation Oncogenesis.
6. Exon skipping.
7. Methods of mutational analysis.
8. Sexual differentiation and Intersex.
9. Uniparental disomy.
10. Genetic sonogram.
