Dr. Harrish Changoba

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT MID SENMESTER EXAMINATION – 2015 B. Tech Semester – VIII

COURSE CODE: 11B1WBT838

MAX. MARKS: 30 MAX. TIME: 2 HRS

(3)

(3)

(2)

COURSE NAME: GENETIC COUNSELING

receptor.

Note: All questions are compulsory. Marks Section A  $(6 \times 1 = 6)$ 1. Give treatment options for Turner's syndrome? 2. What is quad screen test? 3. Differentiate inversion and translocation. 4. How is amniocentesis performed? 5. Name high risk groups that should undergo triple screen test. 6. Differentiate mis-sense and non-sense mutations and give examples. Section B (2) 1. What is directive and non-directive genetic counseling? 2. Identify an autosomal recessive disease that leads to formation of thick mucus and around 70% of the cases of this disease are due to single amino acid deletion. Give five different functional classes of this disease. 3. What are your suggestions, as a genetic counselor, to the parents who have a Down's syndrome (2) child? Should they plan for the second child? (3) 4. Name genes/chromosomes affected in fllowing disorders:d. Patau's syndrome a. Cystic fibrosis e. Edward's syndrome b. Phenylketonuria f. Down's syndrome Klinefelter's syndrome Section C 1. How phenylketonuria is diagnosed and what are its symptoms? (3)2. Discuss epidemiology, symptoms, diagnosis and treatment options for Bardet-Biedl syndrome.

Explain 5 major classes of Familial hypercholesterolemia caused due to mutations in LDL

4. What are various diagnosis and management options for G6PD?

5. What are various problems associated with Patau's syndrome?