

COURSE: HG – 410 (GENETIC COUNSELING AND MANAGEMENT)

Time : 3 Hours]

May-2017

[Max. Marks : 70

NB: All questions are compulsory. Illustrate your answers with neat diagrams wherever necessary		
Q-1 (A)	Explain the classical inheritance pattern.	(07)
<u>OR</u> (A)	Write on the importance of communication, critical thinking and psychosocial assessment skills for a genetic counselor.	
(B)	Write an overview on pedigree construction and the standard symbols used.	(07)
<u>OR</u> (B)	Write a note on variable expressivity, reduced penetrance and value of extended negative history in a family pedigree.	
Q-2 (A)	Discuss genetic testing and its interpretation in context to counseling.	(07)
<u>OR</u> (A)	Discuss the barriers which can arise during patient education.	
(B)	Explain the psychologically challenging reactions of a client during genetic counseling session.	(07)
<u>OR</u> (B)	Explain the disruptions in a working alliance which can arise during a counseling session.	
Q-3 (A)	Write a note on any two euphenics in CF condition.	(07)
<u>OR</u> (A)	Explain in detail gene and genotype frequency.	
(B)	Give a brief note on breast cancer management.	(07)
<u>OR</u> (B)	Write a note on pathology of any one metabolic disease.	
Q-4 (A)	Discuss the indications for invasive prenatal diagnosis and the problems which arise in invasive testing.	(07)
<u>OR</u> (A)	Describe in detail the CVS technique.	
(B)	Explain the 'Triple Marker Test' and give its significance and limitations.	(07)
<u>OR</u> (B)	Discuss the importance and role of ultrasound in prenatal diagnosis.	
Q-5	Answer the following: (One Mark Each)	(14)
(1)	Define non-directive counseling.	
(2)	Define 'transference'.	
(3)	Define 'recall' in context of genetic counseling.	
(4)	Fetal Blood Sampling is done at _____ weeks of gestation.	
(5)	What is importance of 'silence' in context of genetic counseling?	
(6)	Give one factor affecting 'risk communication'.	
(7)	What is the ideal genetic test?	
(8)	What is eugenic approach?	
(9)	Define Progeria.	
(10)	Explain GWA study or GWAS.	
(11)	Give one recommendation for medical documentation.	
(12)	What prenatal diagnostic test can be done to detect Down syndrome?	
(13)	Define PGD.	
(14)	What is the importance of 'accuracy issues' in genetic counseling?	