

Molecular Medicine III

School:School of ScienceProgram/s:BMSYear:5thExamination:End Semester:Examination year:December - 2022

Course Code: BM507, Course Name: Date: 06/12/2022 Time: 11.30 am to 13.30 pm

Total Marks: 40 Total Pages: 03

Instructions:

Write each answer on a new page.

Draw the diagram wherever necessary

> Stick to the Word Limit given in the Questions.

Q. No	Details	Marks	co	BT
Q.1	Do as directed	1x8=8	CO	BTI
	1. Among the various gene therapies. therapy excludes 50% of patients		Т	BTI
	from treatment due to pre-existing immunity to the viral capsids		02	BTI
	2. For construction of the BAC map, positions of individual clones		C O 3	BTI
	can be mapped by refereeing to the landmarks from existing available maps.		C04	
	3. In haplotype, there is a stretch of DNA with a characteristic pattern of			
	present on a given loci of the Chromosome.			
	4. What will be the condition of the progeny if the father is normal, while the mother has			
	one gene for hemophilia and one gene for color blindness on one of the X			
	chromosomes?			
	a. Only daughters are hemophilic and color blind			
	b. Both sons and daughters will be hemophilic and color blind			
	c. 50 % haemophilic and colour blind sons and 50% normal sons			
	d. 50 % haemophilic colour blind daughters and 50% colour blind daughters			
	5 and are the considered to be the main reason for the			
	development of third type of neurofibromatosis.			
	6. In a disease- learning, thinking and health conditions are mostly affected in Child in			
	which is due to occurring on			
Q.2	Answer the following (20-30 words only per answer) 1. In models of Epigenetics, in model A Justify "Both gene duplicates have the same	2x4=8	со 1	BTL 1
	expression pattern".		CO2	BTL2
	2. What are Pseudogenes? Explain any one model having pseudogenes importance.		:03	BTL3
	3. What according to you are the drawbacks of Epigenetics Model A, B and C?	c	04	011.4

