

Program/s:

School: School of Science Master of Science

Year: 2nd

Semester: 3rd

Examination: End Semester examination

Examination year: December - 2022

Course Name: Biochemical basis of disease

Course Code: 1.S244 Date: 08/12/2022

Time: 11:30 AM to 01:30 PM

Total Marks: 40 Total Pages: 02

Q. No.		1886	180 61		
	Land and a state of	Details	Marks	COs	BTL
Q.1	A. Choose the correct answer.		12 M	COI	DTL
	1 The causes of		12 (4)	CO2	BTL1 BTL2
	nutrient deficiency.	is believed to be exaggerated from		CO3	BTL3
	nation deficiency.			CO4	DILS
	a. Anorexia nervosa	h Contact V		CO5	
	c. HIV-AIDS	b. Crohn's disease		000	
		d all of the above			
	2inhibit viral assembly in the treatment of HIV-AIDS				
	a. fusion inhibitors	b. protease inhibitors			
	 c. nucleoside reverse 	d. None of the above			
	transcriptase inhibitors				
	3is/are the prime cell populations target by HIV				
	a. CD4+ cells only	b. CCR5 + cells only			
	c. both a and b	d. None of the above			
	4excellerates the production of foetal hemoglobin				
	in patients of sickle cell anemia				
	a.blood transfusion	b. hydroxy urea			
	c. vitamin C and zine	d. All of the above			
	5protein oxidation/oxidative damage is believed to be				
	one of the key trigger of atherosclerotic plaque formation				
	a. p-selectin	b. Apob			
	c. ICAM	d. None of the abve			
	5is an example of proto-oncogene.				
	a. akt	b. erbA			
	c. BRCA1	d. none of the above			
	7. The first discovered oncogene was				
	a. p53	b. raf			
	c. src	d. none of the above			

	 The first human oncogene identified in gene transfer assays 				
	Was				
	a. ras	b. rasH			
	e bc12	d. c-myc			
	9. Oncogene proteins may act as				
	a growth factors	b. growth factor receptors			
	c intra-cellular signalling	d. All of the above			
	molecules				
	10. are the representatives of	tumor suppressor genes.			
	1.01				
	a. p53	d. All of the above			
	c, smad4	d. All of the above			
	not the key cellular characteristic of a cancer cell				
	a. decreased cytoplasmic	b. large nucleus			
	volume				
	c. demarcated tissue boundary	d. none of the above			
	12. Cholera toxin chiefly alters	cell signalling pathway			
	a. Wnt/b-catenin	b. EGF-b			
	c JNK-STAT	d. None of the above			
	C. JKK-31/A1				
0.1	Provide short answers		12 M	COI	BTL1
Q-2	Any six			CO2	BTL2
	50.0			CO3	BTL3
	Provide key differences between anorexia nervosa and anorexia			CO4	
	bulimia			CO5	
	2. What are foam cells?how they are formed?				
	3. What are oncogenes? Explain their role in cancer development with				
	an example.				
	4. What are the primary target cell populations of HIV?				
	5. What are primary and secondary immune deficiency disorders?6. Define central and peripheral tolerance of immune system.				
	7. Provide key differences between a normal cell and a cancerous cell.				
	8. Explain the term contact inhibition using an example.				
	6. Explain the term contact i	and a supplier			
Q-3	Provide detailed answers.		16 M	COL	BTLI
	Any four			CO2	BTL2
				CO3	BTL3
	Explain mechanism of ac			CO4	
	2. How formation of fatty streak starts? Explain role of various cells			CO5	
	and inflammatory markers.				
	3. Explain the role of tumor suppressor genes and proto-oncogenes in				
	the development of cancer. Define malnutrition. Provide key impacts on human physiology				
	Define malnutrition. Provide key impacts on human physiology. Provide symptoms, etiology, prognosis and treatment of Crohn's				
	Provide symptoms, etiology, prognosis and treatment of Crohn's disease.				
		tics available for the treatment of sickle-cell			
	anemia, with more emph				

************End of Question Paper********