2111E748

's Seat No:	's Seat	Candidate's
-------------	---------	-------------

M.Sc Sem-3 Examination

502

CB

Time: 2-30 Hours]

November-2024

[Max. Marks : 70

Instructions:

All Questions are compulsory Draw neat and labeled diagram wherever necessary

Q-1	(i) (ii)	Write the following Explain how tumor develops in presence of a functioning immune system. Explain how apoptosis plays an important role in the induction of tumor cell death. OR	14 7
		OR	
	(i) (ii)	Write a note on voltage gated ion channels. What is lipid glycosylation? Explain how altered glycosylation plays a role in malignancy?	7 7
Q-2	(i) (ii)	Write the following Write a note on oncofetal antigen and explain any one. What do TATA and TSTA stand for? Explain them in detail. OR	
	(i) (ii)	Write a note on viral antigen presentation. Explain the mechanism of antigen presentation by HLA class I antigens.	7 7
Q-3	(i) (ii)	Write the following Define circulating tumor cells and explain various methods used for the detection of circulating tumor cells. Which standards classify tumor antigens as therapeutic targets? OR	14 7 7
	(i) (ii)	Write a note on molecular <i>In-vivo</i> tumor imaging technique used in oncology. What are the advantages of use of rabbit monoclonal antibodies? Why?	7 7
Q-4	(i) (ii)	Write the following Discuss the potential role of prognostic biomarkers in cancer. Which are the mechanisms by which therapeutic monoclonal antibody cause direct tumor cell killing? Describe in detail. OR	14 7 7

	(i)	Define tumor markers. Explain significance of CEA, CA-125, CA-15.3 7 and CA-19.9 in management of cancer patients. Describe dendritic cell based cancer vaccine.			
	(ii)				7
	()				
Q-5		MCQs (Any seven out of twelve).			14
Q-3				_	
	1	What is the primary role of immu	ne su	rveillance in cancer?	
	а	To promote tumor growth	b	To suppress all immune responses	
	С	To recognize and eliminate cancer cells	d	To enhance the effects of chemotherapy	
		Which type of immunity is o	hara	starized by the presence of	
	2	memory cells?	, i i a i a i	Stellzed by the process	
	а	Innate immunity	b	Passive immunity	
	C	Acquired immunity	d	Non-specific immunity	
				the wood for which nurnose in	
	3	Hormonal tumor markers are p	rımar	my used for which purpose in	
	а	clinical practice? To cure cancer	b	To diagnose and monitor	
	a			treatment response	
	С	To prevent cancer	d	To replace surgery	
		Calcative or total HI A class	antio	en down regulation is usually	,
	4	Selective or total HLA class I antigen down regulation is usually caused by functional defects of the			
	a antigen processing machinery b antigen presenting cells (AF			antigen presenting cells (APC)	
	u	(APM)		Red blood cells	
	С	Platelets	d	Red blood cells	
	E	Imiquimod is used for the treat	ment	of	
	5 a	Oral cancer	b	Skin cancer	
	a C	Bladder cancer	d	Ovarian cancer	
	Ü	Bladdor carret			
				-	
	6	Tumor cells with reduced Mi	HC I	molecule expression are ofte	n
		recognized and targeted by		 Plasma cells	
	а	NK cells	d d	Helper T cells	
	С	B cells	u	Helper I done	
	7	Negative predictive value of th	e ma	rker is defined as	
	a	True negative/true negative	+ b	True negative/true negative +	
		false positive	d	false negative True negative/true negative +	
	С	True negative/false negative + false positive	u	true positive	

8	The false negative is defined as		
a	A test result indicates that a	b	A test result indicates that a
	person does have a specific		person does not have a
	disease when the person actually		specific disease when the
	does have the disease		person actually does not have
			the disease
С	A test result indicates that a	d	A test result indicates that a
•	person does have a specific	u	person does not have a
	disease when the person actually		specific disease when the
	does not have the disease or		•
			person actually does have the
	condition		disease
9	Specificity of a biomarker is defi	nod a	c
a	True negative	b	True positive
a C	False negative	d	False positive
C	r alse negative	u	raise positive
10	is the target of bevac	izuma	ab.
а	EGF	b	VEGF
С	IGF	d	TGF
11	CAR-T cells in clinical	u	se containas co-
_	stimulatory domain.	L	CD20
а	CD20	b	CD38
С	CD28	d	CD138
12	Cytotoxic T lymphocyte-assoc	iated	antigen 4 also known as
_	<u></u>	L	CD400
а	CD16	b	CD128
С	CD56	d	CD152

