Clinical Laboratory Immunology 1st Edition Mahon Test Bank

Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the quest	tion.
 1) How does normal microbial flora on the human body prevent infection? A) Its presence stimulates lysozyme secretions. B) Its presence stimulates acute phase reaction proteins. C) Its secretions maintain a low pH inhibitory to most pathogens. D) Its presence reduces nutrients and space needed for pathogens to grow. E) All of the above. Answer: D 	1) _
 2) Each chemical below is paired correctly with its antimicrobial effect except A) interferon/activation of cellular immunity and inhibition of viral replication. B) lactoferrin/binds complex carbohydrates (like lactose) so that organism can't utilize it. C) fibronectin/when bound to bacterial cells walls, promotes phagocytosis. D) transferrin/binds iron so that organisms can't utilize it. E) lysozyme/degrades bacterial cell walls. Answer: B 	2) _
 3) The granules in mature neutrophils contain all of the following except A) transferrin. B) alkaline phosphatase. C) lysozyme. D) gelatinase. E) histamine. Answer: E 	3) _
 4) The process by which neutrophils leave blood vessels, squeezing between the endothelial cells to enter the tissues, is called A) phagocytosis. B) margination. C) chemotaxis. D) diapedesis. E) opsonization. Answer: D 	4) _
 5) A clinical laboratory scientist observed a peripheral blood smear and noticed one to two pale blu inclusions in several neutrophils. Which of the following would be consistent with this observation? A) C-reactive protein is increased. B) Several neutrophils also have vacuoles. C) Serum albumin and transferrin are decreased. D) The total white blood cell count is high with an absolute neutrophilia. E) All of the above. 	e 5) _

6)	All of the following are functions of monocytes/macrophages except					
	A) lysis of host cells infected with virus.C) cytokine secretion.	B) antigen presentationD) phagocytosis of del				
	Answer: A	b) phagocytosis of del	JI 13.			
	74150001.71					
7)	Natural killer lymphocytes may be distinguished fro		cause they	7)		
	A) possess the CD56 and CD16 cell surface markers.					
	B) lack the CD3 cell surface marker.C) are more likely to appear as larger lymphocytes	with a few azurphilic o	ıranııles			
	D) lack immunoglobulin and specific antigen rece		,			
	E) All of the above.					
	Answer: E					
8)	Which cell type(s) below are associated with lysis of	umor cells?		8)		
٠,	A) Monocyte/macrophages					
	B) Neutrophils					
	C) Lymphokine activated killer (LAK) lymphocytes D) Eosinophils					
	E) All of the above					
	Answer: C					
۵\				۵)		
9)	 Each positive acute phase reactant below is paired correctly with its function except A) alpha-1-antitrypsin/neutralize elastase released by neutrophils. 			9) _		
	B) complement/group of proteins that when activated can lyse target cells.					
	C) fibrinogen/activation of fibroblast cells.					
	D) haptoglobin/binds free hemoglobin and transports it to the liver.					
	E) C-reactive protein/opsonin and complement at Answer: C	livation.				
	Allswei. C					
10)	When an antibody is bound to an antigen, which con		activated?	10)		
	A) Mannose-binding lectin path B) Alternate path C) Classic path					
	C) Classic path Answer: C	D) All of the above				
	Allswei. C					
11)	Each of the following is one of the four basic character		•	11)		
	A) pain. B) heat. C) swell	ng. D) bruising.	E) redness.			
	Answer: D					
12)	How is increased tissue fluid in an inflamed site bene	ficial?		12)		
	A) It brings nutrients to white blood cells in the area.					
	B) It dilutes toxins that are present.					
	C) It brings humoral immune system components such as complement and antibodies.D) It brings coagulation proteins for fibrin formation and localization of the problem.					
	E) All of the above.	and localization of th	, oo oo oo oo			
	Answer: E					

13)	 13) All of the following are chemotactic compounds except A) cytokines released by activated white cells at an inflammatory site. B) cebris from damaged host cells. C) complement C3b. D) certain bacterial products. 				13)		
	Answer: C	•					
14)	B) Unencapsulate C) Fungal spore	coated with antibled Gram positive of Gram negative co	rod			14)	
15)	Neutrophils have re A) C5a C) Fab (antigen b Answer: B	•	B)	oody molecule? Fc (constant fragmer Mannose-binding le	•	15)	
16)	The digestive enzyn	nes of phagocytic	cells are contained i	n the		16)	
	A) nucleus.B) endoplasmic rC) ribosomes.D) Golgi apparatuE) granules.						
	Answer: E						
17)	Which cell(s) below A) Monocyte/mad B) T lymphocyte C) Neutrophil D) NK lymphocy E) All of the abov Answer: B	crophage te	fimmunologic mem	nory?		17)	
10\		usturo to which o	n antibody ar T call	recentor will hind?		10\	
10)	What is the exact str A) Allergen B) Immunogen C) Epitope D) Hapten E) Antigen Answer: C	ucture to writer a	mantibody of T cen	receptor will billa?		18)	
10\		antha and a constant		haran dha a - C - C C	ralla anal	10\	
19)	regulatory function? A) IgA		w resides exclusive C) IgM	ly on the surface of E D) IgD	E) IgE	19)	
	Answer: D						

20) Which tissue(s) below is (are) considered primary lymphoid tissue? (Choose as many as apply.)	20)
A) Thymus	
B) Lymph nodes	
C) Peyer's patches	
D) Spleen	
E) Bone marrow	
Answer: A, E	
21) If a naive T cell does not encounter its corresponding antigen within a few days, what happens?	21)
A) It expresses a new and different T cell antigen receptor.	
B) It converts to a memory cell.	
C) It converts to an effector cell.	
D) It dies.	
Answer: D	
22) Which statement below is TRUE regarding B lymphocytes?	22)
A) B cells are taught to discriminate "self" antigens from "non-self" antigens in the thymus.	
B) B cell antibody response is generally very effective against viruses contained within host cells.	
C) When mature B lymphocytes are released from the bone marrow, they begin secreting	
antibody.	
D) B memory cells can live for years and reactivate quickly if they encounter the same antigen.E) All of the above.	
Answer: D	
23) Which of the following can function as antigen presenting cells?	23)
A) Dendritic cells B) B cells C) Macrophages D) All of the above	,
Answer: D	
24) Which molecules on the cell surfaces of transplanted tissue are most important to match to the	24)
recipient to immediately prevent the recipient's T cells from recognizing the transplanted tissue as	
foreign?	
A) Major histocompatibility complex, Class I B) Major histocompatibility complex, Class II	
C) CD8	
D) CD3	
E) CD4	
Answer: A	
25) Which of the following is characteristic of the primary immune response (first encounter with an	25)
	23)
antigen) as compared with the secondary immune response (later encounter with the same	·
antigen) as compared with the secondary immune response (later encounter with the same antigen)?	
antigen)?	
antigen)? A) More antibodies are produced in the primary exposure than the secondary exposure.	
antigen)?	
antigen)? A) More antibodies are produced in the primary exposure than the secondary exposure. B) More IgM antibodies are produced.	

SHORT ANSWER.	Write the word or phrase that best completes each statement or answers the quest	ion.
26) There are	five basic steps of phagocytosis. List them and briefly describe them.	26)
, 	Chemotaxis—phagocytes are chemically attracted to the site. Attachment—phagocytes form an attachment between their membrane and the part be phagocytized. Engulfment/ingestion—the membrane invaginates and the particle is taken within the forming a body called the phagosome. Digestion—granules within the phagocyte containing digestive enzymes fuse with the phagosome and release their contents. Killing—particles are chemically digested and, if they are live microorganisms, killed.	n
	phagocytes dramatically increase metabolic rate and oxygen consumption when phagocytosis?	27)
(Many products of oxygen are powerfully antimicrobial, and phagocytes expend a great deal of energy producing these oxygen products. Glucose is broken down for energy and the production of lactic acid and hydrogen peroxide. The lactic acid contributes to an acidic environment in the phagosome. The hydrogen peroxide is catalyzed by myeloperoxidase and other enzymes to form peroxide anions (O ₂ -),	
	hydroxyl radicals (OH-), and singlet oxygen, all of which are very damaging to microbes.	
	ne basic steps in the gene rearrangement necessary to produce the T cell antigen and state how this contributes to the ability of T cells to respond to various	28)
, 1 3 0 1	The T cell antigen receptor contains two chains, alpha and beta or gamma and delta. A separate genetic locus exists for each chain. Each genetic locus is comprised of many V genes, J genes, and C genes. To produce a single chain, there is a random selection of one V gene, one J gene, and one C gene. The unused genes are spliced out, and the three selected genes are fused together in a permanent gene rearrangement. Since there are many genes to choose from and since selection is random, thousands of combinations are possible, and all of those combinations represent the ability to respond to a different antigen.	
29) Briefly de	scribe positive and negative selection of T cells in the thymus.	29)
; ; ; ; ; ;	T cells respond to antigen that is presented to them in conjunction with MHC antigens. Pre–T cells possess both the CD4 and the CD8 markers. First, a positive selection process is done in which only cells that can bind to MHC survive. Cells that cannot bind to MHC cannot react to antigen, so they are killed. Second, a negative selection process is done to prevent reaction against self-antigens. Any remaining T cells that bind strongly to MHC antigens are killed as they might react against self-tissues. What remains are T cells that bind weakly to MHC antigens, but if a second antigen is presented with the MHC, then the bond becomes stronger and the T cell is activated. T cells that bind to MHC Class I molecules retain the CD8 receptor, and T cells that bind to MHC Class II molecules retain the CD4 receptor.	

w does a	T cytotoxic	lymphocyte recognize that a host cell is infected with a virus?	30)
co ce cy pr	njugated wi II. CD8+ T c totoxic cells esented wil	ith MHC Class I molecules to be expressed on the surface of the host ytotoxic cells have receptors for the MHC Class I molecule. CD8+ T that also have the T cell antigen receptor for the viral antigen	
. Write	'T' if the sta	atement is true and 'F' if the statement is false.	
		products (endotoxins and lipopolysaccharides) are the underlying cause	e of 31)
swer:	True 💿	False	
	_	em initiates an inflammatory response, this is always beneficial to resol	ving 32)
swer:	True 👂	False	
•	•	se reactant responsible for binding and inactivating certain drugs is alp	ha-1 33)
swer: 🥥	True	False	
			34)
swer:	True 🕑	False	
nature T	helper cell :	should possess CD2, CD3, and CD4.	35)
swer: 🥥	True	False	
ronectin, sonins.	, C-reactive	protein, antibodies, and complement fragment C3b can all function as	36)
swer: 🥥	True	False	
			37)
swer: 🥥	True	False	
s to poss	sess class II I	MHC antigens, while almost all of the remaining nucleated cells in the	
swer: 🥥	True	False	
WER. W	Vrite the wo	ord or phrase that best completes each statement or answers the quest	ion.
e process		ertain substances function to attract leukocytes to an tissue where	39)
	coccessor with coccessor coccessor connecting connectin	swer: Within a host conjugated with cell. CD8+ To cytotoxic cells presented will the host cell. Write 'T' if the state to be and/or their profiles and/or their profiles and/or their profiles and the immune systinging or infection. Swer: True en the immune systinging or infection. En the immune systinging or i	Write 'T' if the statement is true and 'F' if the statement is false. Trobes and/or their products (endotoxins and lipopolysaccharides) are the underlying cause inflammations. Were: True

Answer: chemotaxis

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40)	In an inflammatory reaction, increased vascular permeability causes escape of the fluid	40) _	
	into the tissues resulting in		
	Answer: swelling or edema		
41)	The two cell types that are capable of attacking host cells that are infected with virus are	41) .	
	and		
	Answer: natural killer (NK) cells and T cytotoxic cells	_	
42)	If a lymphocyte possesses the markers CD2, CD3, and CD8, it is probably a	42)	
	Answer: T cytotoxic/suppressor cell	-	
	Answer. T cytotoxic/suppressor cen		
43)	If complement is activated because mannose-binding lectin in the plasma attaches to	43)	
	specific carbohydrate structures on a microbe, this is called the pathway of complement activation.		
	Answer: mannose-binding lectin (MBL)		