PREVIEW QUESTION BANK

Module Name : cec24-bt05 Immunology -Basics-ENG Exam Date : 18-May-2024 Batch : 09:00-12:00

	Question ID	Question Body and Alternatives Mark	M	gati Iark
bjective Que	stion			
14681001	1. Pe 2. Lip 3. Oli	h group of antigens are presented by CD1 molecules? ptides ids gosaccharides gonucleotides	2.0	0.
	A2:2 A3:3 A4:4			
bjective Que	stion			
14681002	1. Os 2. Mic 3. Ku		2.0	0.
	A4 : 4			
bjective Que	stion		2.0	
14681003	State State In ligi 1. Bo 2. Bo	ment (I): During B-cell maturation in the bone marrow, direct contact of the pro-B cell to the stromal cell is essential. ment (II): The binding of cytokine IL7 to its receptor on pre-B cells is essential for B-cell maturation. th of the above statements, choose the <i>most appropriate</i> answer from the options given below. th Statement (I) and Statement (II) are correct. th Statement (I) and Statement (II) are incorrect. atement (I) is correct but Statement (III) is incorrect.	2.0	

			A1:1 A2:2 A3:3 A4:4		
		ctive Questi 14681004		2.0	0.00
	•	14001004	Small regions on the antigen that are recognized by the antibody are called	2.0	0.00
			1. Isotopes		
			2. Paratopes		
			Epitopes Idiotopes		
			4. Idiotopes		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
			A4.4		
	Obje	ctive Questi	on		
11:		14681005		2.0	0.00
			Which cytokine plays a significant role during the proliferation of B-cells?		
			1. Interleukin 2		
			2. Interleukin 4		
			3. Interleukin 7		
			4. Interleukin 9		
			A1:1		
			AL. I		
			A2:2		
			A3:3		
			A4:4		
	01:	0			
		ctive Questi 14681006		2.0	0.00
11					

		Cytokines that induce an anti-viral state are		
		A. Interferon α		
		B. Interleukin 2		
		C. Tumour necrosis factor β		
		D. Interferon β		
		1. (A), (B) and (D) only.		
		2. (A), (B) and (C) only.		
		3. (B) and (C) only		
		4. (A) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		Λ4:4		
Obj	ective Questi	on		
7	14681007		2.0	0.00
		Given below are two statements:		
		Statement (I): The Human Immunodeficiency Virus (HIV) can evade the immune response by constantly changing its		
		antigens.		
		Statement (II): The Herpes simplex viruses can evade the immune response by inhibiting antigen presentation.		
		In light of the above statements, choose the most appropriate answer from the options given below.		
		Both Statement (I) and Statement (II) are true.		
		Both Statement (I) and Statement (II) are false.		
		 Statement (I) is true but Statement (II) is false. Statement (I) is false but Statement (II) is true. 		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ob:	ective Questi			
	14681008		2.0	0.00
0	14001000		2.0	0.00

		Histamine is a potent mediator of inflammation that causes		
		4. (C) and (D) only. A1:1 A2:2 A3:3 A4:4		
	71: 4: 0			
Š		During cell adhesion, the integrin family of proteins interacts with	2.0	0.00
	Objective Q		2.0	0.00

		The hallmarks of inflammation are (A). swelling (B). pain		
		(C). redness		
		(D). heat		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A), (B) and (C) only.		
		3. (A), (B), (C) and (D). 4. (B), (C) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	bjective Ques	II. tion		
1	1 14681011	One of the common methods for HLA typing of potential donors and recipients is	2.0	0.00
		1. MTT assay		
1.1				
		2. microcytotoxicity test		
		microcytotoxicity test agglutination assay		
		microcytotoxicity test agglutination assay		
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay Al: 1		
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay		
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay Al: 1		
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3		
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2		
	Objective Ques	2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4		
	Objective Ques 2 14681012	2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4	2.0	0.00
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4	2.0	0.00
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4 The number of antibodies used in indirect ELISA is	2.0	0.00
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4 The number of antibodies used in indirect ELISA is	2.0	0.00
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4 The number of antibodies used in indirect ELISA is	2.0	0.00
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4 The number of antibodies used in indirect ELISA is	2.0	0.00
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4 The number of antibodies used in indirect ELISA is	2.0	0.00
		2. microcytotoxicity test 3. agglutination assay 4. radioimmunoassay A1:1 A2:2 A3:3 A4:4 The number of antibodies used in indirect ELISA is	2.0	0.00

		A3:3		
		A4:4		
Ohi	ective Quest	ion		
	14681013		2.0	0.00
		Multiple sclerosis is characterised by		
		1. numbness of limbs		
		2. chronic inflammation of joints		
		3. kidney dysfunction		
		4. inflammation of the liver		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	ective Quest	ion		
	14681014		2.0	0.00
		Given below are two statements:		
		Statement (I): Type I hypersensitivity reaction is mediated by IgE.		
		Statement (II): Type II hypersensitivity reaction is mediated by IgG.		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.		
		Both Statement (I) and Statement (II) are true.		
		Both Statement (I) and Statement (II) are false.		
		3. Statement (I) is true but Statement (II) is false.		
		4. Statement (I) is false but Statement (II) is true.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ective Quest	ion		
15	14681015	The alternative pathway of complement activation begins	2.0	0.00
		1. with formation of immune complex.		
		with cleavage of complement proteins C2.		
		with cleavage of complement proteins C4.		
		4. spontaneously.		

			A1:1		
			A2:2		
			A3:3		
			A4:4		
ľ	Obje	ctive Questi	on		
		14681016		2.0	0.00
			The first complement split product to be inserted to form a membrane attack complex is		
			1. C3b		
			2. C4b		
			3. C5b		
			4. C6b		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
			A4.4		
ļ					
		ective Questi 14681017	on	2.0	0.00
	1 /	14681017	C5 convertase in the classical pathway of complement activation is	2.0	0.00
			1. C4b2a3b		
			2. C3bBb3b		
			3. C4b2b3b		
			4. C4bBa3b		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
ŀ	Ohie	ctive Questi	on		
		14681018	v.	2.0	0.00
			The TAP transporter is present on the membrane of		
			1. mitochondria		
			2. lysosomes		
			endoplasmic reticulum		
			4. golgi apparatus		
			A1:1		
			A1.1		

		A2:2		
		A3:3		
		A4:4		
	14681019	on	2.0	0.00
19	14001019	Characteristic features of primary immune response are	2.0	0.00
		(A). long lag phase		
		(B). IgM predominates		
		(C). no memory cells are involved		
		(D). long-lasting		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A), (B) and (C) only.		
		3. (A), (B), (C) and (D).		
		4. (B), (C) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ective Questi	on		
20	14681020	VDDJ joining of D gene segments in δ-chain can be generated by	2.0	0.00
		P-nucleotide addition		
		2. somatic hypermutation		
		3. junctional flexibility		
		4. alternative joining		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ob	jective Questi	on		
	14681021		2.0	0.00

		During thymic selection, negative selection results in		
		1. MHC restriction		
		2. self MHC intolerance		
		3. self tolerance		
		4. clonal selection		
		A1:1		
		Al. I		
		A2:2		
		A3:3		
		A4:4		
Ob	jective Questi	on		
	14681022	···	2.0	0.00
		Viral nucleic acids can be detected by which of the following technique?		
		4 DOD		
		PCR Spectrophotometer		
		Western blotting		
		4. ELISA		
		4. LEISA		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
		A4:4		
	14681023	on	2.0	0.00
23	14681023	A state of unresponsiveness to antigenic stimulation is called	2.0	0.00
		Trotate of annosperior of an agente canadator to canada		
		1. tolerance		
		2. restriction		
		3. avidity		
		4. anergy		
		A1:1		
		A2:2		
		14.2		
		A3:3		
		A4:4		
Obj	jective Questi	on		
24	14681024		2.0	0.00

		Which co-receptor is used by the M-tropic strain of HIV?		
		1. CCR4		
		2. CCR5		
		3. CXCR4		
		4. CXCR5		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
01:				
	ective Quest 14681025		2.0	0.00
25	14681025		2.0	0.00
		In Graves' disease, autoantibodies are produced against		
		acetylcholine receptor		
		thyroid stimulating hormone receptor		
		3. thyroglobulin		
		4. thyroid peroxidase		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
		A4:4		
	ective Quest			
	ective Quest		2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00
			2.0	0.00

Match	l ist-l	with	list-l

List-l	List-II
Cell types	Binds with
(A). B cells	(I). peptide MHC II complex
(B). Mast cells	(II). peptide MHC I complex
(C). T _H cells	(III). free antigens
(D). T _C cells	(IV). IgE

Choose the correct answer from the options given below:

- 1. (A) (I), (B) (II), (C) (III), (D) (IV)
- 2. (A) (II), (B) (I), (C) (III), (D) (IV)
- 3. (A) (I), (B) (II), (C) (IV), (D) (III)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
- A1:1
- A2:2
- A3:3
- A4:4

Objective Question

27 14681027

Some of the antibody-mediated effector functions are

- (A). viral neutralization
- (B). cell lysis
- (C). T-cell activation
- (D). complement activation

Choose the correct answer from the options given below:

- 1. (A), (B) and (D) only.
- 2. (B) and (C) only.
- 3. (A), (B), (C) and (D).
- 4. (A) and (D) only.
- A1:1
- A2:2

2.0 0.00

		A3:3		
		A4:4		
О	ojective Questi	ion		
28	14681028		2.0	0.00
		Given below are two statements:		
		Statement (I): A single B-cell can express different classes of immunoglobulin on their membrane.		
		Statement (II): A single B-cell can express only one class of immunoglobulin on their membrane.		
		In light of the above statements, choose the most appropriate answer from the options given below.		
		Both Statement (I) and Statement (II) are true.		
		2. Both Statement (I) and Statement (II) are false.		
		3. Statement (I) is true but Statement (II) is false.		
		4. Statement (I) is false but Statement (II) is true.		
		A1:1		
		A2:2		
		A2.2		
		A3:3		
		A3:3		
		A4:4		
	ojective Questi	ion	11	11
29	14681029		2.0	0.00
		T-cell receptors are present along with the complex.		
		1. CD1		
		2. CD2		
		3. CD3		
		4. CD4		
		A1 1		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ojective Questi	ion		
30	14681030		2.0	0.00
		The MHC class II proteins are expressed by		
		1. erythrocytes		
		dendritic cells hepatocytes		
		4. neurons		
0.0	11			1

		A1:1		
		A2:2		
		A3:3		
		A4:4		
C	bjective Quest	on		
3	1 14681031		2.0	0.00
		The major cytokine secreting cells are		
		(A). Macrophages		
		(B). T _H cells		
		(C). B cells		
		(D). Fibroblast		
		Choose the <i>correct</i> answer from the options given below:		
		1 (A) (B) and (D) only		
		1. (A), (B) and (D) only. 2. (A), (B) and (C) only.		
		3. (A) and (B) only		
		4. (C) and (D) only.		
		4. (C) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
C	bjective Quest	on		
3	2 14681032		2.0	0.00
		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).		
		Assertion (A): Swelling is one of the hallmarks of inflammation.		
		Reason (R): Swelling occurs due to increased vascular permeability.		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.		
		Both (A) and (R) are correct and (R) is the correct explanation of (A).		
		2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).		
		3. (A) is correct but (R) is not correct.		
		4. (A) is not correct but (R) is correct.		
		4. (A) is not correct but (R) is correct.		
		A1:1		
		A2:2		
		A3:3		

		A4:4		
	ective Questi	on	1	1
33	14681033	During B- cell activation, the progression signal is through the interaction of	2.0	0.00
		2. CD40 and CD40 ligand.		
		3. B7 family of proteins with CD28 molecule.		
		4. Interleukin 7 and its receptor.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	ective Questi	on		
34	14681034	Which cutaking is important for the proliferation of T called	2.0	0.00
		Which cytokine is important for the proliferation of T cells?		
		1. Interleukin 2		
		2. Interleukin 4		
		3. Interleukin 7 4. Interleukin 9		
		4. Interieukin 9		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
01:				
	ective Questi 14681035	on	2.0	0.00
		Company of the impate imposite includes		
		Components of the innate immunity includes		
		(A). physical barriers like skin		
		(B). phagocytic cells		
		(C). B-cells		
		(D). complement proteins		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A), (B) and (C) only.		
		3. (A), (B), (C) and (D).		
		4. (B), (C) and (D) only.		

	, -		1= 1= = 11=			
		A1:1				
		A2:2				
		A3:3				
		A4:4				
Obj	ective Questi	ion				<u> </u>
					2.0	0.00
		Match List-I with List-II				
		List-I	List-II			
		Disease/pathogen	Vaccine type			
		(A). Tuberculosis	(I). recombinant surface antigen			
		(B). Tetanus	(II). capsular polysaccharides			
		(C). Hepatitis B	(III). live attenuated whole organism			
		(D). Streptococcus pneumoniae	(IV). inactivated exotoxin			
		Choose the correct answer from the 1. (A) - (I), (B) - (II), (C) - (III), (D) - (I 2. (A) - (I), (B) - (II), (C) - (IV), (D) - (I 3. (A) - (I), (B) - (III), (C) - (IV), (D) - (I 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (I 5. (C) - (C), (C), (C) -	V)))			
		A1:1				
		A2:2 A3:3				
		A3:3				
		A4:4				
	ective Questi 14681037	ion			2.0	0.00
		Protein A has a high affinity for which	h region of the immunoglobulins?			
		1. F _{ab} region				
		2. hinge region				
		complementarity determining region	ons			
		4. F _c region				
		A1:1				
		211.1				
		A2:2				

		A3:3		
		A4:4		
	jective Questi	on	1000	10.00
38	14681038	Which test is used for confirmation of HIV infection?	2.0	0.00
		1. ELISA		
		2. Western Blotting		
		3. Dot Blotting		
		4. Northern Blotting		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	jective Questi		11	
39	14681039		2.0	0.00
		Complement products that act as anaphylatoxins are		
		(A). C3a		
		(B). C3b		
		(C). C4a		
		(D). C5a		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A), (C) and (D) only.		
		3. (A), (B), (C) and (D).		
		4. (B), (C) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
L				
	jective Questi 14681040	on	2.0	0.00
40	14001040		2.0	0.00

		Some of the cytokines involved in innate immunity are		
		(A). IL1		
		(Β). INFα		
		(C). IL2		
		(D). ΤΝΕα		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	jective Questi	on		
41	14681041	Haemophilus influenzae can evade the immune response by	2.0	0.00
		secreting proteases that cleave IgA dimers production of polysaccharide capsules secreting elastases induction of apoptosis in macrophages		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	jective Questi	on		
	14681042	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).	2.0	0.00
		Assertion (A): The peptide binding cleft in MHC class I molecule is closed at both ends.		
		Reason (R): MHC class I molecule binds to peptides with 13-18 amino acid residues.		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below .		
		1. Both (A) and (R) are correct and (R) is the correct explanation of (A).		
		 Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). (A) is correct but (R) is not correct. 		
		4. (A) is not correct but (R) is correct.		

			A1:1		
			A2:2		
			A3:3		
			A4:4		
	Obio	ective Quest	on		
		14681043		2.0	0.00
			1.0 gans cogments		
			 β gene segments γ gene segments 		
			3. δ gene segments		
			4. ε gene segments		
			A. C gorio segments		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
			A4.4		
		ective Quest	on		
	44	14681044		2.0	0.00
			The gag gene in HIV1 encodes the		
			1. nucleocapsid protein		
			reverse transcriptase		
			3. protease		
			4. integrase		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
ŀ	Obie	ective Quest	on		
		14681045		2.0	0.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).		
		Assertion (A): Cross-reactivity occurs when an antibody reacts with more than one antigen.		
		Reason (R): Cross-reactivity occurs when two different antigens have very similar or identical epitopes.		
		In light of the above statements, choose the <i>most appropriate</i> answer from the options given below .		
		 Both (A) and (R) are correct and (R) is the correct explanation of (A). Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). (A) is correct but (R) is not correct. 		
		4. (A) is not correct but (R) is correct.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	jective Questi	on		
46	14681046	Deficiency in adenine deaminase enzyme causes	2.0	0.00
		Severe combined immunodeficiency disease		
		Severe combined infindiodeliciency disease Bare lymphocyte syndrome		
		hypersensitivity type I		
		4. Graves' disease		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ob	jective Questi	on.		
_	14681047		2.0	0.00
		Rheumatoid factors are auto-antibodies that bind to		
		1. DNA		
		2. lgG		
		3. acetylcholine receptors		
		4. peroxidase		
		A1:1		
		A2:2		
		A3:3		

		A4:4		
Ohi	ective Quest	on and the state of the state o		<u> </u>
1	14681048			
		which cells are the predominant antigen-presenting cells?		
		Natural killer cells		
		2. Dendritic cells		
		3. Eosinophils		
		4. Mast cells		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	ective Quest	on		
49	14681049	M - 31	2.0	0.00
		M-cells are specialized cells present in the		
		gut-associated lymphoid tissues		
		2. thymus		
		3. bone marrow		
		4. spleen		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	ective Quest	on		
50	14681050		2.0	0.00
		Adjuvants increase		
		(A). immune response		
		(B). antigen persistence		
		(C). dose requirements		
		(D). vaccine targets		
		oose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A), (B) and (C) only.		
		3. (A), (B), (C) and (D).		
		4. (B), (C) and (D) only.		

	,			
		A1:1		
		A2:2		
		A3:3		
		A4:4		
1				