

## PREVIEW QUESTION BANK

Module Name : cec24-bt09 Immunology-ENG  
Exam Date : 18-May-2024 Batch : 15:00-18:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	14672001	<p>Which enzyme mediates the cleavage of complement protein C3 into C3a and C3b?</p> <ol style="list-style-type: none"> <li>1. C1 esterase</li> <li>2. Factor B</li> <li>3. Factor D</li> <li>4. C3 convertase</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
2	14672002	<p>Which molecule serves as a co-stimulatory signal for T cell activation?</p> <ol style="list-style-type: none"> <li>1. CD4</li> <li>2. CD8</li> <li>3. CD28</li> <li>4. MHC class I</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
3	14672003	<p>Which class of antibodies is involved in allergic reactions and defense against parasites?</p> <ol style="list-style-type: none"> <li>1. IgA</li> <li>2. IgD</li> <li>3. IgE</li> <li>4. IgG</li> </ol> <p>A1 : 1</p>	2.0	0.00

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

4	14672004	<p>Which cells are known as the "pacmen" of the immune system due to their role in engulfing pathogens?</p> <ol style="list-style-type: none"> <li>1. T cells</li> <li>2. B cells</li> <li>3. Macrophages</li> <li>4. Natural killer cells</li> </ol>	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

5	14672005	<p>What is the main function of dendritic cells in the immune system?</p> <ol style="list-style-type: none"> <li>1. Phagocytosis</li> <li>2. Antibody production</li> <li>3. Antigen presentation</li> <li>4. Cytokine secretion</li> </ol>	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

6	14672006	<p>The disease caused by human herpes virus 8?</p> <ol style="list-style-type: none"> <li>1. Lymphoma</li> <li>2. Kaposi,s sarcoma</li> <li>3. Liver cancer</li> <li>4. Skin cancer</li> </ol>	2.0	0.00
		A1 : 1		

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

7	14672007		2.0	0.00
		IgG in patients with rheumatoid arthritis has abnormal?		
		1. Disulfide bonds		
		2. Glycosylation		
		3. Light chain sequence		
		4. Hinge region		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

8	14672008		2.0	0.00
		Macrophage anti tumor activity is mainly mediated by?		
		1. Interleukin-6-& Interleukin -1		
		2. Tumor necrosis factor & Interleukin-1		
		3. Nitric oxide & tumor necrosis factor.		
		4. Interleukin-2& Interleukin-1		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

9	14672009		2.0	0.00
		The experiment animal model of the human disease multiple sclerosis is?		
		1. The arthus reaction.		
		2. The nude mouse. ence		
		3. Experimental autoimmune phalitis.		
		4. Passive cutaneous anaphylaxis		
		A1 : 1		

A2 : 2

A3 : 3

A4 : 4

## Objective Question

10 14672010

2.0 0.00

Tumour specific antigens are:

1. Unique to tumour cells.
2. Only identified by their ability to induce T cell mediated rejection.
3. Responsible for Inducing a cell mediated response by tumour specific CTL's.
4. All Specifications

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

11 14672011

2.0 0.00

Defensins, kind of Defence peptide molecules are involved in which of the following mechanism?

1. Oxygen dependent killing mechanism.
2. Oxygen independent killing mechanism.
3. Complement activation
4. Complement inactivation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

12 14672012

2.0 0.00

Pick out the odd one:

1. Cancer cells grow and divide at an abnormally rapid rate,
2. They are highly differentiated
3. They have abnormal membranes, cytoskeletal proteins, and morphology.
4. The abnormality in cells can be progressive with a slow transition from normal cells to benign tumors to malignant tumors.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

13 14672013

2.0 0.00

The transplantation of tissue from one part of the body to another is called?

1. Autograft
2. Isograft
3. Allograft
4. Xenograft

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

14 14672014

2.0 0.00

Which protein polysaccharide complex is present in colon carcinomas and in normal fetal intestine and liver?

1. Carcino-embryonic antigen
2. Alpha-feto protein
3. Beta-Hcg
4. CA-125

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

15 14672015

2.0 0.00

Which one of the following cells generally does not secrete IFN-gamma?

1. CD8+ T-cells
2. Th1 cells
3. NK cells
4. Th2 cells

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

16 14672016

2.0 0.00

After exiting thymus, mature T cells are subjected to the secondary selection where the majority of self-reactive T cells are deleted or rendered anergic. The process is known as:

1. Central Anergy
2. Peripheral Anergy
3. Clonal Anergy
4. Any Anergy

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

17 14672017

2.0 0.00

The mechanism of "Lethal hit " of cytotoxic T cells involve a protein called?

1. Perforin
2. Coronin
3. Kinin
4. Gloverin

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

18 14672018

2.0 0.00

The term anaphylaxis is coined by:

1. Portier and Richet.
2. Gell and Coomb
3. Slauoi
4. Eva Engvall

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

19 14672019

2.0 0.00

Which of the following statements about erythrocytes is correct?

1. They fight infection.
2. They clot blood.
3. They lack a nucleus.
4. They are produced in the spleen

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

20 14672020

2.0 0.00

Which enzyme catalyzes the recombination of gene segments to generate diversity in antigen receptors on T and B cells?

1. DNA polymerase
2. RNA polymerase
3. Recombinase
4. RAG1/RAG2 complex

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

21 14672021

2.0 0.00

Which molecule serves as the primary receptor for antigen recognition on T cells?

1. TCR
2. BCR
3. CD4
4. CD8

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

22 14672022

2.0

0.00

Which complement protein forms membrane attack complexes (MACs) that lyse target cells?

1. C3b
2. C5a
3. C6
4. C9

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

23 14672023

2.0

0.00

Which cytokine is primarily responsible for promoting inflammation and recruiting immune cells to the site of infection or injury?

1. Interleukin-4 (IL-4)
2. Tumor necrosis factor-alpha (TNF- $\alpha$ )
3. Interferon-gamma (IFN- $\gamma$ )
4. Interleukin-10 (IL-10)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

24 14672024

2.0

0.00

Which technique is commonly used to detect the presence of specific antigens or antibodies in a sample by utilizing enzyme-labeled antibodies?

1. ELISA (Enzyme-Linked Immunosorbent Assay)
2. RIA (Radioimmunoassay)
3. PCR (Polymerase Chain Reaction)
4. Western blotting

A1 : 1



		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

25	14672025	<p>Inflammatory responses may include which of the following?</p> <ol style="list-style-type: none"> <li>1. Clotting proteins migrating away from the site of infection</li> <li>2. Increased activity of phagocytes in an inflamed area.</li> <li>3. Reduced permeability of blood vessels to conserve plasma</li> <li>4. Release of substances to decrease the blood supply to an inflamed area</li> </ol>	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

26	14672026	<p>Which one mechanism of phagocytosis is more costly</p> <ol style="list-style-type: none"> <li>1. Oxygen dependent killing</li> <li>2. Oxygen independent killing</li> <li>3. Any Other</li> <li>4. None independent or dependent killing</li> </ol>	2.0	0.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

27	14672027	<p>Rapid but non-antigen specific immune responses are produced by the:</p> <ol style="list-style-type: none"> <li>1. Adaptive immune system.</li> <li>2. Innate immune system.</li> <li>3. Leukocytes</li> <li>4. Lymphatic system</li> </ol>	2.0	0.00
		A1 : 1		

A2 : 2

A3 : 3

A4 : 4

## Objective Question

28 14672028

2.0 0.00

According to clonal selection theory:

1. An antibody changes its shape according to the antigen meets
2. An individual animal contains only one type of B-cell
3. The animal contains many types of B-cells each producing one kind of antibody
4. Each B-cell produces many types of antibodies

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

29 14672029

2.0 0.00

Chemotactic factors for Neutrophils are?

1. IL8 and IL7
2. C5a and C3a
3. C5b and C5a
4. B4 and IL7

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

30 14672030

2.0 0.00

NK cells are capable of killing many types of tumor cells and contribute to immune surveillance; tumor cells become susceptible to killing by NK cells when they down-regulate expression of MHC:

1. Class I
2. Class II
3. Both 1 and 2 options
4. None Class

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31	14672031	<p>The mechanisms of peripheral tolerance do not include:</p> <ol style="list-style-type: none"> <li>1. Anergy</li> <li>2. Apoptosis</li> <li>3. Suppression</li> <li>4. Receptor editing</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

32	14672032	<p>Which of the following is not true about Graves disease?</p> <ol style="list-style-type: none"> <li>1. Caused by thyroid stimulating antibody</li> <li>2. Stiffening of joints</li> <li>3. Causes ophthalmopathy</li> <li>4. Causes pretibial myxedema</li> </ol> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

33	14672033	<p>The two most thoroughly characterized oncofetal antigens are:</p> <ol style="list-style-type: none"> <li>1. Carcinoembryonic antigen and <math>\alpha</math>-fetoprotein</li> <li>2. Carcinoembryonic antigen and tumor specific gene</li> <li>3. <math>\alpha</math>-fetoprotein and tumor antigen</li> <li>4. tumor antigen only</li> </ol> <p>A1 : 1</p>	2.0	0.00
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A2 : 2

A3 : 3

A4 : 4

## Objective Question

34 14672034

2.0 0.00

A non-HLA gene associated with Rheumatoid arthritis is:

1. IL23R
2. IL12B
3. PTPN22
4. IL2RA.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

35 14672035

2.0 0.00

Glomerulonephritis associated with pulmonary hemorrhage is referred to as?

1. Systemic lupus erythematosus
2. Wegener's granulomatosis
3. Good pasture's syndrome
4. Lambert-Eaton syndrome

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

36 14672036

2.0 0.00

Margination refers to?

1. The adherence of phagocytes to microbes
2. Chemotactic response of phagocytes
3. Adherence of phagocytes to the lining of blood vessels
4. Dilatation of vessels

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

37 14672037

2.0 0.00

Chloroquine is an inhibitor of the endocytic processing which:

1. Inhibits peptide update into cells.
2. Allosteric inhibit lysosomal protease.
3. Increase the pH of lysosome & inactivation of lysosomal protease.
4. into cells options

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

38 14672038

2.0 0.00

Mechanism by which tumors evade immunological destruction is?

1. Secretion of anticomplementary factors.
2. Release of Lymphokins.
3. Production of immunosuppressive molecules.
4. Alternate pathway cytotoxicity

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

39 14672039

2.0 0.00

In myasthenia gravis blocking antibodies bind to?

1. Acetylcholine
2. Dopamine
3. Acetylcholine receptors
4. Axons

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

40 14672040

2.0 0.00

Match **List-I** with **List-II**

List-I	List-II
Cytokines	Functions
(A). Interferon-gamma	(I). Enhances macrophage activation
(B). Interleukin-4	(II). Promotes Th2 cell differentiation
(C). Tumor necrosis factor-alpha	(III). Stimulates cytotoxic T cell activity
(D). Interleukin-2	(IV). Stimulates T cell proliferation

Choose the **correct** answer from the options given below:

- (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

41 14672041

2.0 0.00

Which type of immunity is primarily acquired through breastfeeding?

- Active immunity
- Passive immunity
- Natural immunity
- Artificial immunity

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

42 14672042

2.0 0.00

Match **List-I** with **List-II**

List-I	List-II
Immune cells	Functions
(A). Macrophages	(I). Produce antibodies
(B). B cells	(II). Phagocytose pathogens
(C). Cytotoxic T cells	(III). Kill virus-infected cells
(D). Natural killer cells	(IV). Kill abnormal cells, including tumor cells

Choose the **correct** answer from the options given below:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

43 14672043

2.0 0.00

Which of the following is a primary component of the DPT vaccine?

- Diphtheria toxoid
- Tetanus toxoid
- Pertussis bacteria
- Inactivated influenza virus

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

44 14672044

2.0 0.00

## Match List-I with List-II

List-I	List-II
Types of immunity	Description
(A). Humoral immunity	(I). Mediated by antibodies
(B). Cell-mediated immunity	(II). Mediated by T cells
(C). Innate immunity	(III). Provides immediate defense against pathogens
(D). Adaptive immunity	(IV). Develops specific immune responses over time

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)
2. (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

45 14672045

2.0 0.00

Gel electrophoresis separates DNA fragments based on their:

1. Molecular weight
2. Charge
3. Hydrophobicity
4. Sequence composition

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

46 14672046

2.0 0.00



The polio vaccine developed by Jonas Salk in the 1950s is primarily administered via:

1. Oral drops
2. Intramuscular injection
3. Subcutaneous injection
4. Intravenous infusion

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47 14672047

The Gel Electrophoresis (GE) classification system is primarily used to analyze:

1. Proteins
2. Nucleic acids
3. Lipids
4. Carbohydrates

A1 : 1

A2 : 2

A3 : 3

A4 : 4

2.0 0.00

Objective Question

48 14672048

2.0 0.00

## Match List-I with List-II

List-I	List-II
<b>Types of hypersensitivity reactions</b>	<b>Description</b>
(A). Type I hypersensitivity	(I). Mediated by IgE antibodies and mast cell activation
(B). Type II hypersensitivity	(II). Antibody-mediated cytotoxic reactions
(C). Type III hypersensitivity	(III). Immune complex-mediated reactions
(D). Type IV hypersensitivity	(IV). Delayed-type hypersensitivity reactions involving T cells

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
3. (A) - (IV), (B) - (II), (C) - (I), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

## Objective Question

49	14672049	Myobacterium tuberculosis is an intra-cellular bacterium. It prefers to infect?	2.0	0.00
		<ol style="list-style-type: none"> <li>1. Macrophages</li> <li>2. B-cells</li> <li>3. T-cells</li> <li>4. Neutrophills</li> </ol>		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

## Objective Question

50	14672050		2.0	0.00
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Both Alphafetoprotein and Human Chorionic Gonadotropin exhibit serum elevations in?

1. Pregnancy
2. Ovarian germ cell carcinoma
3. Non seminomatous testicular cancer
4. Pregnancy, Ovarian germ cell carcinoma aand Non seminomatous testicular cancer

A1 : 1

A2 : 2

A3 : 3

A4 : 4