

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences DEPARTMENT OF MEDICAL SCIENCES

DIPLOMA IN MEDICAL LABORATORY SCIENCES (DMLS 13 J MID / DMLS 12M)

AML 2222: IMMUNOLOGY II

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: OCTOBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this examination

- Answer booklet

This paper consists of **TWO** sections.

Answer all questions in **Section A** and **B.** $\frac{1}{2}$ marks deducted for any wrong answer in **Section A**.

This paper consists of **6 PRINTED** pages **SECTION A (40MARKS)**

- 1. The outernatise name for type III hypersensitivity is
 - a) Delayed types hypersensitivity
 - b) Immune complex hypersensitivity
 - c) Antibody mediated hypersensitivity
 - d) Anaphylactic hypersensitivity
- 2. State one example of type II hypersensitivity
 - a) Blod transfusion reactions
 - b) Intraveums allergens
 - c) Serum sicieness
 - d) Arthus reaction
- 3. Engulfing and killing particulate proteins in immunology is referred to as:
 - a) Phafocytosis
 - b) Acisocytosis
 - c) Heusocytosis
 - d) Leusocytosis
- 4. Proteins produced by cells in the presence of specific entigens are referred to as
 - a) Antigen presenting cells
 - b) Cytokines
 - c) Interferous
 - d) Protective proteins
- 5. How molecular weight substances that cannot stimulate immune response unless conjugated to carrier molecules are reffered to as:
 - a) Haptens
 - b) Immunogene
 - c) Immunoglobuibe
 - d) Antibodies
- 6. The ability to react with products of immune responses is reffered to as:
 - a) Antigenicity
 - b) Immunogenity
 - c) Pathogenicity
 - d) None of the above
- 7. The group of cytokines produced in response to virus infections are referred to as
 - a) Interleukins
 - b) Interferon's
 - c) Tumour narcosis factors

	d) None of the above
8.	Antigens that stimulate hypersensitivity are reffered to as: a) Antibodies b) Ailergens c) Immunogens d) None of the above
9.	Immediate hypersensitivity is the alternative name for typehypersensitivity a) Type I b) Type II c) Type III d) Type IV
10.	Replacement of diseased / dead cells, tissues, organs is referred to as: a) Transplantation b) Transfusion c) Transportation d) Graffing
11.	Specific immunological unresponsiveness to self antigens or to foreign antigen is reffered to as: a) Auto immunity b) Tolerance c) Interleukin d) None of the above
12.	The ability to stimulate immune responses is reffered to as: a) Immuno genicity b) Antigenucity c) Pathogencity d) None of the above
13.	Regulating the amplitude of immune responses is the main role of a) Cytokines b) Lymphocytes c) Interbenkins d) None of the above
14.	The following are characteristics of avergens which one is not a) Are proteins in nature b) Have low molecular weight c) Have high solubility d) Are present in high doses
15.	Following are characteristics of acquired immunity which one is not a) Specific b) Provides second line defence c) Capable of discriminating between non self and self

a) b) c)	ell mediated immunity is mediated by one of the cells T-lymphosytes Natural killer cells Mast cells None of the above
a) b) c)	fine adjurants as used in immunology. Fluids consumed during dehydration Substances that enhance the immune response How molecular kininogens Specific proteins to present Antigens
a) b) c)	hich among the following corrective measure are for type I hypersensitivity Avoiding the allergen Use of antihistamines Performing histocopartibility tests before grafting None of the above
a) b) c)	In tolerance breakdown HIV /Aids patients Immune supressed individuals None of the above
a) b) c)	hat class of saline involves actual live organisms rendered non Live vaccines Live altenuated vaccines Dead vaccines Semi-synthesic vaccines
a) b) c)	Auto immunity Tolerance breakdown Auto hypersensitive Death
a) b) c)	clonal tolerance Clonal anergy tolerance Cenral tolerance Cenral tolerance Cenral tolerance Peripheral tolerance
a) b)	Non specific in nature Have memory Do not confer resistance to re-infection

d) Does not confer resistance to re-infection

	d)	First line defense against entry of disease causing organisms			
24.	a)b)c)	is an example of type I hypersensitivity Blood transfusion reactions Hay fever Systemic lupus erythromatosus Serum sickness			
25.	a)b)c)	Thich among the following is an example of type III hypersensitivity Systemic lupus erythromatosus Asthma Ecsema None of the above			
26.	a)b)c)	ne immune system in mammals is divided into: Maternal immune system Innate immune system Acquired immune system None of the above			
27.	a) b) c)	Thich among the following are classes of antibodies IgA IgG IgM IgS			
28.	a) b) c)	and T lymphocytes are usually manifested in Innate immunity Acquired immunity Both A and B None of the above			
29.	a) b) c)	terferns are Group of cytokins produced in responses to bacterial infutions Group of cytokines produced in response to viral infections Group of cyctokines produced in response to parasitic infections None of the above			
	SECTION B (60marks)				
	2.	Discuss type IV hypersensitivity Discuss the immunology of transplantation Discuss the causes of tolerance break down	(20marks) (20marks) (20marks)		