11/28/2020

18BCP18

Exam Date & Time: 26-Sep-2020 (02:00 PM - 05:30 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image: 30mins

MSc DEGREE EXAMINATION MAY 2020 (Fourth Semester)

Branch - BIOCHEMISTRY IMMUNOLOGY [18BCP18]

Marks: 75 Duration: 210 mins. SECTION A Answer all the questions. Which one engulfs foreign materials? 1) (i) Macrophages (ii) Plasma cells (1) (iii) Mast cells (iv) Lymphocytes Where both B-cells and T-cells of immune system are produced? 2) (i) Spleen (ii) Lymph nodes (1) (iii)Bone marrow (iv) Thymus How many variable segments are present in an antibody? 3) (i) 1 (ii) 2 (1) (iii) 3 (iv) 4 Which of the following is not used for the precipitation of immune complexes? 4) (i) Nephelometry (ii) Polyethylene glycol · (1)(iii) Ammonium sulfate (iv) Antibody to immunoglobulin What is a characteristic of early stages of local inflammation? 5) (i) Fever (ii) Anaphylactic shock (1) (iii)Release of histamine (iv) Attack by cytotoxic T cells Which one of the following mast cells products is not performed and therefore has to be (1) 6) newly synthesized? (i) Histamine (ii) Prostaglandin D2

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	(iii)Heparin (iv) Eosinophil chemotactic factor (ECF)	
7)	Which type of hypersensitivity cannot be transferred with serum antibody? (i) Type I (ii) Type II (iii) Type III (iv) Type IV	(1)
8)	The majority of the auto immune diseases are (i) cell mediated	
	(ii) antibody mediated (iii)macrophage mediated (iv) mast cells mediated	(1)
9)	Which of the following has the maximum transplantation success rate? (i) Autograft	
	(ii) Xenograft (iii) Allograft (iv) Syngenicgraft	(1)
10)	Find a unique tumor antigen expressed by B-cell Lympoma. (i) p53	
	(ii) Endosialin (iii)SM-3 (iv) Idiotype	(1)
	SECTION B	
11)	Write a note on knockout mice.	
a)		(7)
[OR]	Enlist the difference between T and B cells.	(7)
12)	Give an account on idiotype.	
a)		(7)
[OR] b)	What is IRMA? Describe the procedure and its application.	(7)
13)	Discuss in detail about types of ELISA and its applications.	
a)		(7)
[OR]	Explain the role of cytokines in inflammation and in diseases.	(7)
14)	Write a short note on DNA based immunization.	(7)

Elucidate the autoimmune disease in humans.

Analyze graft vs host reaction in transplantation immunology.

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19)

20)

(10)

(10)