The West Bengal University of Health Sciences 3rd BMLT September, 2023 Examination



Subject: Clinical Immunology Mycobacteriology and Applied Microbiology

Lime	e: 3 hrs.	Full Marks : 1	00
	Attempt all questions	[10] (14] [14] [15] [16] [16] [16] [16] [16] [16] [16] [16	
	Answer the following questions:	있다. 그리는 경에 가장 마음이 가는 그들은 사람들이 되었다. 그런 사람들이 가장 가장이다는 그런 그렇게 되었다. 그런 그를 가장 그렇게 되었다면 하는 것이다.	x 1
a)	 The inappropriate response of immune system towards a re host is referred as: 	elatively harmless antigen causing harm to	the
	i) Hypersensitivity ii) Auto-Immune Diseases ii) l	Immunodeficiency iv) Tolerance	
b)) Which of the following Ig is involved in mediating allergic	reactions?	
	i) IgG ii) IgM iii) IgE	iv) IgA	
c)) Which one of the following is a cell mediated hypersensitive	ve reaction	
	i) Type I ii) Type II iii) Type III	iv) Type IV	
d)) HIV attacks		
	i) T helper cells ii) T cytotoxic cells iii) B cells iv) Mast cell	
e)) Name the congenital defect of thymus development that car	n lead to T-cell deficiency	
	i) Graves' disease ii) Anaphylaxis iii) DiGo		
f)) The major chemical messenger involved in hypersensitivity		
	i) Interleukines ii) Lymphokines iii) His		
g)	A living microbe with reduced virulence that is used for vaccination is considered:		
	i) A toxoid ii) Dormant iii) Vii	rulent iv) Attenuated	
h)) Large parasites such as helminthes may be killed extracellu		
	i) Basophils ii) Monocytes iii) Eosi		
i)	4 프로마양이 중의 : 경험과 (역정) - 1. 영화 등의 경험 (경영) - 1. 영화 :	마리마추어되었다. 65 전 교육적인 사업으로 보았다면서 가수 이번 하지만 얼어서 휴대일이 없어 없다고 하고 있다. 요구는	1 is
	a		
	i) Bacterium/virus ii) Soluble molec		
	iii) whole-cell/soluble molecule iv) Protein/antibo		
1)	그렇다 이 없는 얼마나다 이 어디와 맛으로 가면서서 안 되는 경찰이 하게 가지 않다면서 어떻게 되었습니까? 게 하지 않다.	그들이 그녀는 물들으로 그는 그리스들은 일반하는 이름을 위해 그 그렇지 이러움이라는 동안되었다.	r N
	i) Memory cells ii) Basophils iii)	Plasma cells iv) Neutrophils	
2. A	Answer <i>any four</i> the following questions.		x 5
	Type III hypersensitivity.	원이 불다는 병에 가는 사이를 하다고 한다.	A J
	h) HAT medium.	뭐다. [이렇게 노선이 되는 보고 하다	
- 2	c) Classical Complement Pathway.	2 시간 12 시간 사람이 있는데 얼마 없었다.	
ď	싫다고 . 이러 및 최프리 레트라이트 바로 작품으로 하는 이 글 가지 않는 그 모습니다. 이 스트워크		
e)	e) Radio Immuno Assay.	개통하다 사람들이 걸어 가게 되었다.	
	본다. 즐러움 사이, 프랑테를 하고 보는 하고 있을까 싫어하다.		
	Answer <i>any two</i> of the following:		
a)		이번 동시에 가게 있는 것을 때문에 하는 것이 되어 되어 되어야 했다고 있는 지원을 가셨다고 하다.	
1.	immunity. Define Opsonization.	5+3	
b)		이렇게 하고 있다. 이 경영을 되는 가지 그렇게 하는 경우를 가득했다면서 계계 하는 동국에 하고 있어 있다.	A 100 PM
	molecules to T lymphocytes.	보다[16] 아니는 16 18 18 18 18 18 18 18 18 18 18 18 18 18	10
(c)) Define structure and properties of immunoglobulin classes.	. Discuss about natural killer cells. 7	+3

4. Answer the following questions: 10×1 a) Which one is considered to be the positive result of Presumptive test? i) Production of acid after 24-48hrs of incubation ii) Production of gas after 24-48hrs of incubation iii) Production of both acid and gas after 24-48hrs of incubation iv) None of these b) Which of the following organism is positive quality control strain of Albert staining? i) Staphylococcus aureus ii) Mycobacterium tuberculosis iii) Clostridium tetani iv)Corynebacterium diphtheriae c) The association which involves the exchange of nutrients between two species is called: i) Mutualism ii) Commensalism iii) Syntrophism iv) Antagonism d) Which of the following organism is the quality control strain of mannitol salt agar? i) Staphylococcus aureus ii) Streptococcus pyogenes iii) Clostridium perfringens iv) Bacillus anthracis e) Bacterial load in an operation theatre is determined by: i) Slit sampler method ii) Open petridish method iii) Settle plate method iv) all of the above f) Which bacteriocin is produced by E.coli? i) Pyocin ii) Colicin iv) Klebicin iii) Marcescin g) Which of the following bacteria is present as normal flora in the acidic pH of the vagina? i) Clostridium botulinum ii) Lactobacillus acidophilus iii) Neisseria gonorrhoeae iv) Streptococcus mutans. h) Which of the following microorganism can be found as normal flora in the nasopharynx of healthy individuals? i) Mycobacterium tuberculosis ii) Streptococcus pneumonia iii) Clostridium difficile iv) Bacillus cereus i) Which of the following microorganismis is a predominant flora of the skin? i) Bacillus anthracis ii) Clostridium perfringens iii) Leptospirainterogans iv)Staphylococcus epidermidis j) Which of the following bacteria are a part of normal flora present inside the mouth and also a frequent

Write short note on any four of the following:

4 x 5

- a) Quality control of staining technique.
- b) Any one method of measuring air contamination.
- c) Normal flora of Urogenital tract.

cause of bacterial dental caries? i) Staphylococcus epidermidis

iii) Streptococcus mutans

- d) Advantages and disadvantages of Normal flora of human body.
- e) Write down a short note on Membrane filter method.
- Answer any two of the following:
 - a) Describe the pathogenesis and clinical manifestations of TB. Write down the lab diagnosis of this disease.

ii) Lactobacillus acidophilus

iv)Candida albicans

- b) How can you isolate and enumerate microorganisms from soil sample? Which physical and chemical parameters should you check during a culture media preparation? 7 + 3
- c) Describe about the normal flora of GI tract.

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