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Sardar Patel University MSc Integrated Biotechnology Examination -Semester 8 PS08CIGMB1: Medical Microbiology Tuesday 29th March, 2016 2:30 pm to 5:30 pm

No	ta.
110	

1. Figures to the right indicate marks.

Total Marks: 70

2. Draw neat and labelled diagram, wherever necessary.

Q.1 Multiple choice questions

[08]

African trypanosomiasis is also known as.....

a. Chaga's disease b. Black water disease c. Sleeping sickness d. blood dysentery

2 Sporozoite is the infective form of

a. L. dononovani

b. E. histolytica

c. P. vivax

d. T. vaginalis

3 Which one of the bacteria is causing "Pseudomembrane formation",

a. S. aureus

b. S. pyogenes

c. C. diphtheriae

d. both a and b

A researcher conducts a standard test to identify pathogen (A, B, C) on the basis of their biochemical properties, the result is given in the following table

	s. the result is give	n in the followin	g table.
Test		Bacteria	-
Gram Staining	A	В	<u> </u>
Gram Statiling	Gram +Ve	Gram +Ve	Gram -Ve
Diad	Cocci	Cocci	short road
Blood agar (aerobic)	B hemolysis		Short road
atalase	+	- <u>-</u>	<u> </u>
Coagulase	+		
ased on the chave it is	·	+	_

Based on the above, identified bacteria A, B and C are most probably.

- a. Escherichia, Staphylococcus, Streptococcus
- b. Escherichia, Streptococcus, Staphylococcus
- c. Streptococcus, Staphylococcus, Escherichia
- d. Staphylococcus, Streptococcus, Escherichia
- The best method for documentation of acute hepatitis A virus infection is the demonstration of high titres of virus-specific antibody in serum drawn during the acute phase of illness. a. IgG b. IgM

c. IgA

d. IgE

Confirmatory test for diagnosis of HIV is

a. Rapid Immunochromatographic test

b. ELISA

c. Western blot

d. None

Dermatomycoses is the study of

- a. Fungus disease of hair b. fungus disease of skin
- c. fungal disease of nails d. all the above
- The following is not an example of dermatophyte

a. Trichophyton b. Epidermophyton c. Microsporium d. Fusarium

Q.2 Attempt any seven

[14]...

Briefly explain the morphological forms of Leishmania donovani.

Draw trophozoite and cyst of E. histolytica

	3	Briefly explain the toxins produced by pathogenic strains of Escherichia coli.		
	4	Why a throat infection may lead to heart attack?		
	5			
	6			
	7	Briefly describe preventive strategies against Hepatitis B virus.		
	8	What is m-y shift? Explain with example.		
	9	What is Mycetoma?		
Q.3	A	Give life cycle of Ascaris lumbricoides.	foc1	
	В	Discuss the morphological features and life cycle of <i>Leishmania</i> sp. causing visceral leishmaniasis in humans.	[06] [06]	
		OR		
	В	What is malaria? Explain the life cycle of causative agent and correlate with clinical manifestation of malaria.	[06]	
Q.4	Λ	In detail explain pathogenesis of S. aureus and laboratory diagnosis performed to identify pathogen.	[06]	
	В	Discuss virulence factors involved and disease caused by Mycobacterium tuberculosis,	[06]	
		OR		
	В	Briefly explain the modes of genetic exchange prevail in the bacterial kingdom. Compare generalized and specialized transduction process.	[06]	
Q.5	A	Write a detailed note on classification of animal Viruses.		
	'B	Write a detailed note on HIV virus infection and clinical manifestation,	[06] [06]	
		OR	[oo]	
_	В	Give comparative account on HSV-1 and HSV-2 infection.	[06]	
Q.6	Α	Discuss pathogenesis, laboratory diagnosis and treatment of snorotrichosis	[06]	
	В	Write a detailed note on systematic classification of Fungus.	[06]	
		OR	[ոо]	
	В	Write a detailed note on different types of Opportunistic Mycoses.	[06]	



