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(This paper is consists of 2 pages)

24-01-2022

**II-MBBS** 

01231 A3+01231 A4

Second M.B.B.S. (Main) Examination (New Scheme)

January - 2022

MICROBIOLOGY

Paper-Second

**Time: Three Hours** 

Maximum Marks: 100

Attempt all questions in both sections

(Use separate answer book for each section)

## Section-A

1. Fill in the blanks:							6 x 1 = 0
a)	causes swimmin	g pool gra	anulon	na.			
b)	is a double stranded RNA virus associated with diarrhea to infants.						
c) Tenofovir is us	sed in treatment of		0	Hepatitis viru	is.		
d)	d) Virus is responsible for bronchiolitis in infants and						s.
	is the causative						
bacilli, often o	onfused with diphti	heroids.					
f) Painful, multip	ole, bilateral, tiny ve	sicular ul	cers wi	th incubation	period of	f 2-7 day	s is found
in	10						
2. Answer the follo	wings (Multiple Cho	ice Quest	tions):				4 x 1 = 04
i) Which of the	following can cause	acute dia	rrhea t	hrough inflam	matory c	hanges i	n the
intestine inde	uced by cytokine rele	ease?					
a) Cholera	b) EHEC	c) Sta	aphylo	coccus aureus	d) All		
ii) Nakayama st	rain is used for which	h vaccine-	-				
a) Typhoid	b) Chicken	рох	c) Ja	panese enceph	alitis	d) Yello	ow fever
iii) The following	g is not true of candi	da albican	ns-				
a) Yeast like	e fungus	b) Fo	orms Ch	lamydospores			
c) Blastome	eres seen in isolates	d) Ca	auses m	eningitis in im	muno-co	mpromis	ed
iv) Mycobacter	ium kansasii belongs	to-					
a) Scotochromogens		b) Ph	notochr	omogens			
c) Rapid growers		d) No	on-Phot	tochromogens			
The state of the s	infant was brought to	,					
	lated with pleural inv			t examination of	of sputun	n shows p	olenty
of pus cells, and	gram-negative pleon	norphic ba	acilli.				



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<ul> <li>a) What is clinical diagnosis of this condition and the most likely etiologic</li> </ul>	al agent? 02
b) What is the clinical spectrum of the organism?	03
c) Write lab diagnosis of the causative organism.	07
d) Treatment and Immuno-Prophylaxis against the causative organism.	03
4. Write short notes on (Any five):	5 x 2 = 10
a) Enumerate Halophilic vibrios.	
b) Enumerate tissue nematodes.	
c) Enumerate virus causing hepatitis.	
d) Non-gonococcal urethritis.	
e) Filovirus infection.	
f) Congenital toxoplasmosis.	
5. Explain briefly (Any three):	3 x 5 = 15
a) Enumerate fungal infections of skin and soft tissue with lab diagnosis of	any one.
b) Enumerate parasitic infection of central nervous system with lab diagno	sis of any one.
c) Oncogenic viruses.	
d) Lab diagnosis of COVID-19 infection.	
Section-B	
6. Enumerate agents causing acute diarrhea. Write predisposing factors, lab diagr	nosis and
treatment as per severity of acute diarrhea.	20
7. Explain briefly (Any five):	5 x 2 = 10
a) Eggs of Schistosoma species.	
b) Lab diagnosis of bacterial vaginosis.	
c) Enumerate agents associated with viral meningitis and myelitis.	
d) Bacillus cereus infection.	
e) Enumerate intestinal nematodes.	
f) Enumerate agents of atypical pneumonia.	
8. Explain briefly (Any four):	4 x 5 = 20
a) Amoebic liver abscess.  b) Lab diagnosis of leprosy.	

d) Zygomycosis.

c) Antibiotic associated diarrhea.

e) Lab diagnosis of Nocardiosis.