MD MICROBIOLOGY (PAPER ONE)

GENERAL BACTERIOLOGY & IMMUNOLOGY

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Describe in detail antibiotic stewardship in India.	(20)
Q. 2.	Describe in detail the epidemiological markers for microorganisms.	(20)
~ Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Premonition immunity	
	b. Efficacy testing of disinfectants	
	c. Biofilms in bacterial infection	
	Write short notes on:	$(5 \times 6 = 30)$
	a. Disposal of biomedical waste.	
	b. Point of care test in microbiology.	
•	c. Role of microbiologist in HICC.	
	d. Hybrid vectors	
	e. Super antigens.	
	X	

MD MICROBIOLOGY (PAPER TWO)

SYSTEMIC BACTERIOLOGY & MYCOLOGY

Q. 1. Dise	empt all questions strate with suitable diagrams. cuss the laboratory diagnosis tuberculosis. What is XDR tuberculosis? What is Control Programme (RNTCP)?	nt is Revised National (20)
Tub	erculosis Control Programme (RNTCP)?	
		(20)
Q. 2. Disc	cuss the systemic fungal infection in human being and antifungal agents.	
		(20)
Q. 3. Des	cribe briefly:	$(3 \times 10 = 30)$
a.	Super antigens of Staphylococcus aureus	
b. (Gut microbiome	
c.	Vaccines against Salmonella Typhi	
Q. 4. Wri	te short notes on:	$(5 \times 6 = 30)$
a.]	Mycetoma	
b. 3	Mycoplasma infections	
c.]	Laboratory diagnosis of anaerobic infections	
d. 1	Enteroaggregative Escherichia coli	
e.]	Rhinosporidiosis	

MD MICROBIOLOGY (PAPER THREE)

VIROLOGY AND PARASITOLOGY

[Time	allotted: Three hours]	[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Discuss the treatment of HIV infection.	(20)
Q. 2.	Discuss helminths that cause true diarrhoea.	(20)
	(Enumerate species, describe important clinical features and laboratory diagnosis	and mention
	treatment options)	
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Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Drug resistance in Leishmania donovani	
	b. Ebola virus	
	c. Congenital viral infections	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Acanthamoeba spp.	,
	b. Epidemiology of SARS-Cov-2 in India	
	c. Dengue vaccines	
	d. Strongyloides stercoralis	
	e. Zika virus	
	x	

MD MICROBIOLOGY (PAPER FOUR)

RECENT ADVANCES

[Time	allotted: Three hours]	[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Discuss the strategies of vaccine development and clinical trials. Add a note on	H_1N_1 vaccine. (20)
Q. 2.	Describe in detail the molecular methods of diagnosis used in microbiology.	(20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Rapid automated systems used in microbiology	,
	b. Diagnosis of Covid-19	
	c. Ventilator associated pneumonia	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Bacteriological examination of milk	, ,
	b. Standard work precautions	
	c. Vancomycin resistant Enterococci	
	d. Ribotyping	
	e. Revised national tuberculosis control programme (RNTCP)	
	X	