POST GRADUATE EXAMINATION, MAY- 2020

MD MICROBIOLOGY

(PAPER ONE)

GENERAL BACTERIOLOGY & IMMUNOLOGY

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Define immunity. Discuss different kind of defense system in human body. D response and immune tolerance.	Discuss specific immune (20)
Q. 2. Discuss the epidemiological markers used for tracing the source of an outbreak. How wi		
	to identify the cause of an outbreak of septicemia in a neonatal ward?	(20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Monoclonal antibodies	
	b. Blood culture media	
	c. Immediate type of hypersensitivity reaction	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Sterilization by filtration	
	b. DNA probing	
	c. Limulus amoebocyte lysate (LAL) assay	
	d. Bacterial capsule	
	e. Biofilms	
	X	

POST GRADUATE EXAMINATION, MAY- 2020

MD MICROBIOLOGY (PAPER TWO)

SYSTEMIC BACTERIOLOGY & MYCOLOGY

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Describe newer methods for diagnosis of MDR tuberculosis.	(20)
Q. 2.	Describe epidemiology, pathogenesis and laboratory diagnosis of pneumo	ocystis jiroveci pneumonia. (20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Mycotic keratitis	
	b. Pheohyphomycosis	
	c. Newer antifungal agents in pipeline	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Vancomycin resistant enterococci	
	b. Laboratory diagnosis of scrub typhus	
	c. Antibiotic associated diarrhoea	
	d. Pneumococcal vaccines	
	e. Leptospirosis in India	
	_X	

POST GRADUATE EXAMINATION, MAY- 2020 MD MICROBIOLOGY

(PAPER THREE)

VIROLOGY AND PARASITOLOGY

Lime	anotted: Three nours	[Max Marks	: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.		
Q. 1.	Discuss the role of microbiology laboratory in investigating an outbreak of viral	pneumonia.	(20)
Q. 2.	Discuss the viral etiology and mechanism of cancer.		(20)
Q. 3.	Describe briefly:	(3 x 10	= 30)
	a. Occult filariasis		
	b. Chagas disease		
	c. Lung flukes		
Q. 4.	Write short notes on:	(5 x 6	= 30)
	a. Viral zoonosis		
	b. Current status of HIV vaccine		
	c. Human babesiosis		
	d. Guinea worm disease		
	e. Free living amoebae		
	X		

POST GRADUATE EXAMINATION, MAY- 2020

MD MICROBIOLOGY

(PAPER FOUR)

RECENT ADVANCES

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Discuss in detail quality assurance in the microbiology laboratory.	(20)
Q. 2.	Discuss the role of microbiologists in formulating antibiotic policies.	(20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Pathogenic 'rapid-grower' mycobacteria	
	b. Rotavirus vaccines	
	c. Prions	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. MALDI TOF MS	
	b. Molecular diagnosis of invasive fungal infections	
	c. The role of gut microbiota in human health and disease	
	d. Toll-like receptors	
	e. Bacteriophages as therapeutic agents	
	_XX	