

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2022

MCBACOR13T-MICROBIOLOGY (CC13)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

Answer Question No. 1 and any four questions from the rest

1.		Answer any <i>four</i> questions from the following:	$2 \times 4 = 8$
	(a)	What do you mean by Schizont?	
	(b)	What are Gnotobiotic animals?	
	(c)	Mention the prophylactic measures of cholera.	
	(d)	What is tetanospasmin?	
	(e)	What is PBP?	
	(f)	What is Zoonotic disease?	
	(g)	What is Sandwich ELISA?	
	(h)	What do you mean by invasiveness of pathogen?	
2.	(a)	How do microbes attach to and invade the host?	2
	(b)	What are the normal Microfloras associated with the following body sites?	2+2
		(i) Oral cavity (ii) Gastrointestinal tract	
	(c)	Write briefly about the sample collection process from lower respiratory tract.	2
3.	(a)	What are the predisposing factors of poliovirus infection?	3
	(b)	Make an outline sketch of pathogenesis of poliovirus.	3
	(c)	What do you mean by inapparent poliovirus infection?	2
4.	(a)	What are the different antigens present in Salmonella typhi?	2
	(b)	Give a brief account on vaccines to control typhoid.	4
	(c)	How can an athlet's foot spread?	2
5.		Describe the principles of each technique in disease diagnosis:	$2 \times 4 = 8$
	(a)	Nested PCR	
	(b)	Compliment fixation	
	(c)	Secondary immunofluorescence	
	(d)	Hemagglutinin inhibition test.	

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6.	(a)	What are the tri-drugs used to control AIDS?	2
	(b)	Why HIV infection leads to immunodeficiency?	2
	(c)	What is the relation between MDR and antibiotic resistance?	2
	(d)	What is toxic Shock Syndrom?	2
7.	(a)	What are the four types of anthrax? Describe each in brief.	1+3
	(b)	What are the drugs used to treat peptic ulcer caused by <i>Helicobacter pylori</i> ? Narrate the mode of action of the drug for the treatment of the disease.	1+2
	(c)	What is EIEC?	1
8.	(a)	Describe the symptoms of Kala-azar. What is its causative agent? Which organ is affected by this disease? What is recrudescence?	2+2+1+2
	(b)	What is transport media?	1
9.	(a)	What do you mean by bacteriostatic and bacteriocidal antibiotics? Furnish with examples of each.	2+2
	(b)	Mention the aminoglycoside antibiotic and what is its target site of action.	1+1
	(c)	What do you mean by antibiogram?	2

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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