

'समानो मन्त्रः समितिः समानी' UNIVERSITY OF NORTH BENGAL B.Sc. Honours 6th Semester Examination, 2022

CC13-MICROBIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

 $1 \times 5 = 5$

The figures in the margin indicate full marks.

- 1. Answer any *five* of the following:
 - (a) What is agglutination?
 - (b) What is mycoses?
 - (c) Name two antiviral agents.
 - (d) Name causative agent responsible for Kala-azar.
 - (e) What is MDR?
 - (f) Define toxigenicity.
 - (g) Name two normal microflora of skin.
 - (h) What are efflux pump?

2.	Answer any <i>three</i> of the following:	5×3 = 15
((a) Elucidate the various mechanisms of overcoming antibiotic resistance.	5
((b) Describe the symptoms and mode of transmission of the disease caused by bacteria that affects the respiratory system in human.	2+3
((c) Explain the principle and process of ELISA.	5
((d) Differentiate between acute and chronic carriers with suitable example.	5
((e) Write short notes on the following:	$2\frac{1}{2} \times 2 = 5$
	(i) Sources of nosocomial infections	
	(ii) Anthropogenic activities behind the development of antibiotic resistance.	
3.	Answer any <i>two</i> of the following:	$10 \times 2 = 20$
((a) What is malaria? How it is transmitted? What are the common symptoms o malaria? Add a note on its treatment and prevention.	f 1+3+3+3
((b) Describe various agglutination based tests for diagnosis of diseases. Name one antimicrobial agent that inhibits cell membrane function. Add note on MDR.	e 5+1+4
((c) Name one antibacterial agent that affect the cell membrane of bacteria. Describe its structure and mode of action. Write a note on Griseofulvin.	2 1+2+5+2
((d) Describe the structure and mode of action of any one antibacterial agent tha targets the cell wall of bacteria. What are antimetabolites?	t 3+5+2

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