Q.P. Code:138005

Reg.No.....

## First Professional B.S.M.S Degree Regular/Supplementary Examinations

## June 2024

(SIDUG) – Nunnuyiriyal (Microbiology)

## (2021 Scheme)

Time: 3 hrs Max. Marks: 100 Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers Indicate the question number correctly for the answer in the margin space Answer all parts of a single question together • Leave sufficient space between answers Draw table/diagrams/flow charts wherever necessary 1. Multiple Choice Questions (20x1=20)The Answers to MCQ questions (Q.No.i to Q.No.xx) shall be written continuously on the first two writing sheets (ie Page No. 3 & 4) only i. Which of the following organism has sterols in their cytoplasmic membrane a) Clostridium b) Proteus c) Mycoplasma d) Bacillus ii. Which of the following has Chinese letter arrangement a) Bacillus anthracis b) Mycobacterium tuberculosis d) Corynebacterium diphtheriae c) Clostridium tetani The morphology of bacteria is determined by iii. a) Staining b) Culture c) Pure culture d) All the above Name the sterilization agent that is most frequently used in hospitals and clinical iv. laboratories for the heat-labile liquid substances or antibiotics a) Dry heat b) Radiation c) Filtration d) Formaldehyde The most selective antibiotics are those that interfere with the synthesis of ٧. b) Bacterial RNA a) Bacterial DNA c) Bacterial cell wall d) Bacterial plasma membrane vi. Ringworm of the scalp is known as b) Tinea pedis a) Tinea capitis c) Tinea unguium d) Onychomycosis vii. Ergotism is due to a) Claviceps purpurea b) Fusarium c) Aspergillus flavus d) Tricothecium viii. Tears contains antibacterial substance called a) Lysosyme b) Enzyme c) Mesosome d) Lysosome Typhus fever serological diagnostic test ..... ix. a) Weil - Felix reaction b) Paul Bunnell test d) Mantoux test c) Cold agglutinin test The activation of C3 without the prior participation of C4b2a is Known as the ------Х. a) Alternative pathway b) Lectin pathway c) Classial complement pathway d) Mannose complement pathway Myasthenia Gravis' is caused by the production of auto antibodies against the xi. a) Myelin basic proteins b) TSH receptor c) Acetylcholine receptor d) None of the above

xii.	Exfoliative toxin is responsible for			
	a) Toxic shock syndrome	b) Staphylococcal s	b) Staphylococcal scalded skin syndrome	
	c) Down syndrome	d) Turner syndrome	d) Turner syndrome	
xiii.	iii. Waterhouse Friderichsen syndrome caused by			
	a) Neisseria gonorrhoeae	b) Neisseria menin	b) Neisseria meningitidis	
	c) Treponema pallidum	d) Haemophilus inf	d) Haemophilus influenzae	
xiv.	xiv. Dienes phenomenon is seen in			
	a) Proteus b) Klebsiell	a c) Pseudomonas	d) Providencia	
XV.	Nagler's reaction is useful for the identification of			
	a) C. tetani b) C. perfrir	ngens c) C. botulium	d) C. difficile	
xvi.	When the viral genome gets inserted into bacterial host it is termed as			
	a) Replication	b) Lytic cycle		
	c) Lysogenic cycle d) Capsid formation		ו	
xvii.	The incubation period of Varicella virus is of about			
		c) 1 month		
xviii.	The is an abrupt drastic and discontinuous variation in the antigenic structure			
	resulting in novel virus strain.			
	a) Hemagglutinin	b) Elution		
	c) Antigenic Shift d) Antigenic Drift			
xix.			elop on the buccal mucosa.	
	a) Koplik's spot	b) Shingles		
	c) Abscess d) Blue- gray spot			
XX.	The pathogenic species of Ebola virus			
	a) Jeryl – Lynn	b) Zaire		
	c) Edmonston	d) Schwartz – Mora		
Short Answer Questions(8x5=40)				
2. Describe about chemical agents used in sterilization.				

- 3. Write about the antimicrobial chemotherapeutic agents.
- 4. Write about classical pathway in complement system.
- 5. Explain about the toxins and enzymes produced by Staphylococcus aureus.
- 6. Describe about gas gangrene with its symptoms and diagnosis.
- 7. What are the types of Chlamydial infection, detail on trachoma infection.
- 8. Dengue with its clinical stages.
- 9. Nosocomial infection.

## Long Answer Questions

- 10. Write about the detail notes on aerobic and anaerobic bacterial culture methods.
- 11. Write an essay on enteric fever and its pathogenic characteristics, laboratory diagnosis.
- 12. Detailed notes on pathogenesis and laboratory diagnosis of tuberculosis with its control measures.
- 13. Explain about HIV infection with its diagnosis in detail.

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(4x10=40)