Reg. No.....

First Professional B.S.M.S Degree Regular Examinations August 2023

(SIDUG) – Nunnuyiriyal (Microbiology)

(2021 Scheme)

Time: 3 hrs

Max. Marks: 100

(20x1=20)

- 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

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.	The organ of adhesion in bacteria is the					
	a) Flagella	b) Capsule	c) Nucleus	d) Fimbria		
ii.	Bacteria that are unable to synthesize their own metabolites and depend on pre-formed					
	organic compounds are called					
	a) Phototrophs	b) Chemotrophs	c) Autotrophs	d) Heterotrophs		
iii.	Triple sugar iron medium contains all of the following sugars except					
	a) Glucose	b) Sucrose	c) Lactose	d) Maltose		
iv.	Endoscopes are sterilized by					
	a) Hot air oven	b) Autoclave	c) Glutaraldehyde	d) Phenol		
V.	Which of the following is example of cell wall inhibitors					
	a) Penicillin	b) Cephalosporin	c) Carbapenems	d) All of the above		
vi.	What is the ring worm of the foot called					
	a) Tinea pedis	b) Tinea capitis	c) Tinea cruris	d) Tinea barbae		
vii.	Ergot poisoning is produced by					
	a) Claviceps species		b) Coprina species			
	c) Aspergillus species		d) Penicillium species			
viii.	Active immunity is not acquired by					
	a) Vaccination		b) Infection	b) Infection		
	c) Sub clinical infection		d) Immunoglobulin transfer			
ix.	The earliest immunoglobin synthesized by the foetus is					
	a) lgG	b) IgA	c) IgE	d) IgM		
х.	Biosynthesis of complements takes place at the following sites in the body					
	a) Spleen	b) Liver	c) Bonemarrow	d) Both (a) and (b)		
xi.	Lens antigens of the eye are a type of					
	a) Sequestrated antigen		b) Neoantigen			
	c) Cross reacting antigen		d) Molecular mimicry			
xii.	The capsule of Streptococcus pneumoniae can be demonstrated by					
	a) Albert staining		b) Negative staining			
	c) Gram staining		d) Acid fast staining			

xiii.	i. The most common mode of transmission of gonorrhea is						
	a) Venereal mode	b) Injection	c) Inhalation	d) Blood transfusior	1		
xiv.	 Rose spots are characteristic feature of 						
	a) Hepatitis	b) Typhoid fever	c) Diarrhoea	d) Plague			
XV.	v. Contamination of umbilical cord leads to						
	a) Diarrhoea	b) Food poisoning	c) Tetanus	d) Infantile botulism			
xvi.	The process of transmission of genes between bacteria through bacteriophage is						
	a) Transduction	b) Eclipse	c) Conjugation	d) Transformation			
xvii.	Reys's syndrome is associated with						
	a) VZV infection	b) Variola	c) Vaccinia	d) Tana pox			
xviii.	Incubation period in human influenza is						
	a) 1 to 3days	b) 8-10days	c) 10 – 15days	d) 30days			
xix.	Jeryl – Lynn strain is used for						
	a) Influenza	b) Rubella	c) Mumps	d) Measles			
XX.	Which of the following animal species is a natural reservoir for Nipah virus						
	a) Dogs	b) Cats	c) B Rats	d) Pigs			
Short Answer Questions (8x5=40)							
2.	Autoclave						
3.	Coomb's test						
4.	Alternative complement pathway						
5.	Plague						

- 6. Anthrax
- 7. Bacteriophage
- 8. Antirabbic vaccine
- 9. AIDS

Long Answer Questions

- 10. Define and classify hypersensitivity reactions. Describe Type I hypersensitivity.
- 11. Describe the morphology, pathogenesis, laboratory diagnosis and prophylaxis of Vibrio cholera
- 12. Describe the morphology, pathogenesis, laboratory diagnosis and prophylaxis of Corynebacterium diphtheria
- 13. Describe the transmission, pathogenesis, clinical manifestation, laboratory diagnosis and prophylaxis of Hepatitis B virus.

(4x10=40)