Q.P. Code:138005	Reg. No
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## First Professional B.S.M.S Degree Supplementary Examinations December 2024

		mber 2024				
	Nunnuyiriy	al (Microbiology)				
	(2021	Scheme)				
Tin	ne: 3 hrs	· · · · · · · · · · · · · · · · · · ·	Max. Marks: 100			
	<ul> <li>Answer all questions to the point neatly and</li> </ul>	d legibly • Do not leave any bla				
	<ul> <li>Indicate the question number correctly f</li> </ul>					
	<ul> <li>Answer all parts of a single question togeth</li> </ul>					
	<ul> <li>Draw table/diagrams/flow charts wherever in the control of the contr</li></ul>	=				
1.	Multiple Choice Questions		(20x1=20)			
The	Answers to MCQ questions (Q.No.i to Q.N	o.xx) shall be written contin	uously on the first two			
	ing sheets (ie Page No. 3 & 4) only	,				
	Who was the first to propose the use of variations of variations and the state of variations are stated as the state of variations and the stated are stated as the stated	accines to combat disease				
١.	· · · · · · · · · · · · · · · · · · ·		d) Pobort Koob			
ii	<ul><li>a) Edward Jenner</li><li>b) Louis Pasteur</li><li>Which type of organism requires organic</li></ul>	, .	d) Robert Koch			
11.		c) Chemolithotrophs	d) Photoautotrophs			
:::	Which of the following bacteria is known to	,	d) Filotoautotropris			
1111.	a) Streptococcus pyogenes	b) Staphylococcus aureu	c			
	c) Clostridium botulinum	d) Enterococcus faecalis	5			
iv,	What is the primary mechanism of action	,				
IV.	a) Inhibition of cell wall synthesis	b) Inhibition of protein syr	nthesis			
V	c) Inhibition of nucleic acid synthesis d) Disruption of membrane integrity Which mycotoxin is associated with liver damage and carcinogenic effects					
٧.	a) Zearalenone b) Aflatoxin	c) Ochratoxin	d) Trichothecene			
vi	Which of the following immune cells prima	•	d) Thenothecene			
VI.	a) Red blood cells b) Neutrophils	c) T cells	d) Platelets			
vii.	Which of the following bacteria is known f					
V III.	a) Escherichia coli					
	c) Salmonella typhi	<ul><li>b) Pseudomonas aerugin</li><li>d) Bacillus cereus</li></ul>	1004			
viii.	What is the primary mechanism of action	,	t			
<b>v</b>	a) Oxidation of proteins	b) Disruption of cell mem				
	c) Precipitation of nucleic acids	d) Enzyme inhibition				
ix.	ix. How are Enterococcus species primarily transmitted					
	a) Airborne transmission		ected surfaces			
	c) Fecal-oral route	d) Blood borne transmiss				
Χ.	x. Which serovars of Chlamydia trachomatis are responsible for causing trachoma					
	a) Serovars A, B, Ba, C	b) Serovars D-K	3			
	c) Serovars L1, L2, L3	d) Serovar G				
χi.	Albert stain is an example for	,				
	•	c) Negative stain	d) Simple stain			
xii.	Rickettsia prowazekii is primarily transmit	, •	, .			
	a) Mosquito b) Louse	c) Élea	d) Tick			
xiii.						
a) Hepatitis A vaccine b) Varicella vaccine						
	c) Meningococcal vaccine	d) Human Papillomavirus	s (HPV) vaccine			
xiv.	tèrial génera					
	a) Escherichia	b) Staphylococcus	-			
	c) Haemophilus	d) Streptococcus	(PTO)			

XV.	What is the primary clinical syndrome associated with acute Epstein Barr Viral infection					
	a) Infectious mononucleos	sis	b) Meningitis			
	c) Hepatocellular carcinor	ma	d) Germen measles			
xvi.	. Draughtsman colony is a characteristic feature of					
	a) Streptococcus pyogene	es	b) Enterococci			
	c) Streptococcus pneumo	oniae	d) All the above			
xvii.	i. The shape of the smallpox virus is best described as					
	a) Helical b)	Spherical	c) Brick-shaped	d) Rod-shaped		
xviii.	i. Cowdry type A inclusions are primarily associated with which virus					
	a) Cytomegalovirus (CMV)		b) Herpes simplex virus (HSV)			
	c) Influenza virus		d) HIV			
xix.	Which of the following tests is used to differentiate Proteus mirabilis from Proteus vulgaris					
	a) Urease test b)	Indole test	c) Lactose fermentation tes	st d) Oxidase test		
XX.	Which of the following is a characteristic symptom of rubella					
	a) Koplik spots b)	Parotitis	c) Maculopapular rash	d) Jaundice		
Short Answer Questions (8x5=40)						
2.	Describe the structure ar	nd function of the	bacterial cell wall.			
3.	3. List the different antigen-antibody reactions and explain the types of ELISA (Enzyme-Linked					
	Immunosorbent Assay).	,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,		
1	Discuss immunodeficiend	ocy disorders				
		•		and diamerais		
5.	Explain baciliary dysente	ery, including its ca	auses, clinical presentation	, and diagnosis.		

## **Long Answer Questions**

(4x10=40)

10. Define and classify hypersensitivity. Explain Type IV hypersensitivity in detail.

9. Explain the causes, pathogenesis, and clinical features of black fungal disease.

6. Describe the pathogenesis and clinical features of pulmonary tuberculosis.

8. Explain the pathogenesis and laboratory diagnosis of aseptic meningitis.

7. Discuss the infections caused by Herpes simplex virus-1 (HSV-1).

- 11. Describe the morphology, cultural characteristics, pathogenesis, and laboratory diagnosis of Bacillus anthracis.
- 12. Discuss the morphology, pathogenesis, laboratory diagnosis, and opportunistic infections associated with the Human Immunodeficiency Virus (HIV), and provide a note on its management.
- 13. Classify culture media, explain in detail about Anaerobic culture methods.

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