

## 2406000102030701 **EXAMINATION JANUARY 2024 BACHELOR OF MEDICINE AND BACHELOR OF SURGERY** (SECOND YEAR) MICROBIOLOGY (PAPER - I) (NEW) (OMR)

[Time: As Per Schedule]	[Max. Marks: 100]
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Instructions: 1. Fill up strictly the following details on your answer book			Seat No:	
a. N	ame of t	he Examination: BACHELO	R OF MEDICINE AND	
		OR OF SURGERY (SECON	•	
	ame or t	he Subject : MICROBIOLO	GI (PAPER -I)(NEW)	
c. Si	ıbject Co	ode No: <b>2406000102030701</b>		
		I labelled diagram wherever n	<u> </u>	
_		ight indicate full marks of the re compulsory.	question.	G, 1 , 2 G; ,
ram que		ie companiony.		Student's Signature
		Mici	robiology: Paper-I	
Q.1	MCQ	s	mo-	20
	1.	Name the Gram-positive c	occi that form grape-like cl	usters:
		A. Streptococcus	B. Staphylococcus	
		C. Enterococcus	D. Pneumococcus	
	2	The immunoglobulin pred	ominant in secretions like sa	aliva and tears is:
	۷.	A. IgA	B. IgG	arva and tears is.
		C. IgM	D. IgE	
	3.		used to detect acid-fast bac	teria:
		A. Gram staining	B. Ziehl-Neelsen staining	
		C. India ink staining	D. Methylene blue staining	
	4.	The causative agent of amo	<b>3</b>	
		A. Giardia lamblia	B. Entamoeba histo	•
		C. Cryptosporidium parvui	n D. Balantidium col	1
	5.	The toxin responsible for f	Good poisoning caused by Cl	lostridium
		botulinum is:		
		A. Endotoxin	B. Botulinum toxin	
		C. Tetanospasmin	D. Exotoxin A	



6.	The complement pathway  A. Classical pathway  C. Lectin pathway	chat is antibody-dependent is called:  B. Alternative pathway  D. Terminal pathway	
7.	. The causative agent of typhoid fever is:		
	A. Escherichia coli	B. Salmonella typhi	
	C. Shigella flexneri	D. Vibrio cholerae	
8.	. The immunoglobulin responsible for anaphylactic reactions is:		
	A. IgE	B. IgA	
	C. IgM	D. IgG	
9.	Which test is used to confininfection?	rm the diagnosis of Helicobacter pylori	
	A. Urease breath test	B. ELISA for antibodies	
	C. Stool antigen test	D. All of the above	
10	.Name the organism that ca	uses gas gangrene:	
	· ·	B. Clostridium difficile	
	C. Clostridium tetani	D. Escherichia coli	
11. Which hepatitis virus is transmitted via the fecal-oral route?			
	A. Hepatitis B	B. Hepatitis C	
	C. Hepatitis A	D. Hepatitis D	
12	. Which of the following is a	a zoonotic bacterial infection?	
	A. Salmonella typhi	B. Leptospira interrogans	
	C. Vibrio cholerae	D. Shigella flexneri	
13	.The gold standard for mala	ria diagnosis is:	
	A. Peripheral blood smear		
	C. ELISA for antigens	D. PCR	
14	.The causative organism of	pseudomembranous colitis is:	
	A. Escherichia coli	B. Clostridium difficile	
	C. Shigella dysenteriae	D. Salmonella typhi	
15	.The organism associated w	ith peptic ulcer disease is:	
	A. Helicobacter pylori	B. Escherichia coli	
	C. Shigella flexneri	D. Vibrio cholerae	



	<ul><li>16. What is the major vector for</li><li>A. Aedes aegypti mosquito</li><li>C. Culex mosquito</li></ul>		
	_	ted with prosthetic valve endocarditis?  nidis B. Staphylococcus aureus  D. Enterococcus faecalis	
	18. Name the staining method neoformans:	used for identifying Cryptococcus	
	A. Gram stain	B. India ink staining	
	C. Ziehl-Neelsen staining	D. Lactophenol cotton blue	
	19. Which immunoglobulin is response?	the first to be produced in a primary immune	
	A. IgA	B. IgG	
	C. IgM	D. IgE	
	20. Rocky mountain snotted fe A. R. rickettsii C. R. typhi	ever is due to  B. R. prowazekii  D. R. conoril  Section 02	
Q.2	Essay-	ank	12
		2.0	
		d function of the cell wall and cell membrane	
	of a gram-negative rod with the ho	elp of a diagram.	
Q.3	Answer in Brief (Any 4 out of 5)	)	28
<ol> <li>What are the primary components of the innate immune system, and how do they differ from those of the adaptive immune system?</li> <li>Describe in detail the structure &amp; Function of the Bacterial Cell wall write methods of Demonstration of cel wall</li> </ol>			
		f action of beta-lactam antibiotics.	
		enesis of an autoimmune disease dy reactions and their applications in	
	J. WITE ADOUL AHUZEH-AHUDO	av reactions and then additeations in	

diagnostics.



## Section 03

<b>Q.4</b>	A 35-year-old male presents with high-grade fever, fatigue, and new onset of a	12	
	heart murmur. Blood culture grows Streptococcus viridans.		
	1. What is the likely clinical condition?	2	
	2. Discuss the pathogenesis of this condition.	5	
	3. Describe the laboratory diagnosis and treatment options		
Q.5	Answer in Brief(Any 4 out of 5)	28	

- 1. Describe the laboratory diagnosis of amoebic liver abscess
- 2. Explain the laboratory diagnosis of typhoid fever.
- 3. Write about Clostridium difficile infections and their management.
- 4. Importance of effective communication skills in Doctor-Patient relationship
- 5. Pyrexia of unknown origin: definition, causes and diagnostic test used

\*\*\*\*\*END\*\*\*\*\*

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