

2406000102030702 EXAMINATION JANUARY 2024 BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (SECOND YEAR) MICROBIOLOGY (PAPER - II) (NEW) (OMR)

[Max. Marks: 100] [Time: As Per Schedule] **Instructions:** Seat No: 1. Fill up strictly the following details on your answer book a. Name of the Examination: BACHELOR OF MEDICINE AND **BACHELOR OF SURGERY (SECOND YEAR)** b. Name of the Subject : MICROBIOLOGY (PAPER - II) (NEW) (OMR) c. Subject Code No: 2406000102030702 2. Sketch neat and labelled diagram wherever necessary. 3. Figures to the right indicate full marks of the question. 4. All questions are compulsory. Student's Signature Microbiology: Paper-II Section 1 Q.1 MCQ **20** 1. The fungus that exhibits septate hyphae with dichotomous branching on KOH mount is: a. Cryptococcus b. Mucor c. Penicillium d. Aspergillus 2. Rhinosporidiosis is characterized by all the following except: a. It is caused by a fungus. b. The fungus is usually found in dirty water. c. It manifests as polyps that bleed easily.

a. 10

d. 2

d. It can be cultured easily in the laboratory.

3. Total number of categories in Biomedical Waste are:

b. 8

c. 4



4.	Which medium is preferred for cult a. MacConkey agar c. Chocolate agar	uring Mycobacterium tuberculosis? b. Lowenstein-Jensen medium d. Sabouraud's agar						
5.	Buruli ulcer is caused by: a. M. xenopi c. M. scrofulaceum	b. M. malmoense d. M. ulcerans						
6. Neisseria gonococcus is primarily associated with which of the following conditions?								
	a. Genital infections	b. Pharyngitis						
	c. Meningitis	d. Skin abscess						
7. Ecthyma gangrenosum is caused by:								
	a. Brucella	b. H. influenzae						
	c. Pseudomonas	d. Bordetella						
8.	arasites migrate to the lung in their							
	a. Trichinella spiralis	b. Ancylostoma duodenale						
	c. Ascaris lumbricoides	d. Strongyloides stercoralis						
9. Gram-stain morphology of Bacillus anthracis is:								
	a. Tennis racket appearance	b. Bamboo stick appearance						
	c. Drumstick appearance d. Spectacle glass appearance							
10.	10. Epstein-Barr virus is associated with the following malignancies, except:							
	a. Nasopharyngeal carcinoma	b. Burkitt's lymphoma						
	c. Carcinoma of the cervix	d. Non-Hodgkin lymphoma						
11.	. Which of the following is vector for	r leishmaniasis:						
	a. Sandfly	b. Reduvid bug						
	c. Anopheles mosquito	d. Tsetse fly						
12. Cryptococcus neoformans is most likely to cause:								
	a. Pulmonary infection	b. Meningitis						
	c. Skin infections	d. Bone infections						
13.MGIT used in tuberculosis diagnosis is:								
	a. Automated culture	b. Biochemical test						
	c. Microscopic method	d. None of the above						
	-							



14. Which of the following fungus DOES NO	l' infect nail	:
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a. Trichophyton

b. Epidermonhyton

c. Microsporum

d. Candida albicans

15. The amplifier host for Japanese B Encephalitis is:

a. Ardeid birds

b. Pigs

c. Forests

d. Herons

16. Neisseria meningitidis primarily causes:

a. Meningitis

b. Urethritis

c. Endocarditis

d. Pharyngitis

17. The fungus that causes mucormycosis most commonly belongs to which genus?

a. Rhizopus

b. Candida

c. Cryptococcus

d. Aspergillus

18. Which of the following statements about the shape of the virus is correct?

a. Rotavirus - Wheel-shaped

b. Tobacco Mosaic Virus - Filamentous-shaped

c. Ebola Virus - Rod-shaped

d. Adenovirus - Brick-shaped

19. MRSA is mediated due to

a. Plasmid

b. mecA gene

c. .Transposons

d. None

20. All of the following antimicrobial agents act on cell membrane, except

a. .Gramicidin

b. Daptomycin

c. Polymyxins

d. Vancomycin

Section 2

Q.2 Essay – 12

A 35 year old female from a village of Bihar came to the hospital with history of fever on and off for the past one year and recently developed unilateral swelling of the left lower limb. Her blood sample was sent for peripheral blood smear examination which revealed worm like structures, 240 um in length with pointed tail tip.



stranker	s choice	www.i ii stitairkei.com	
	1.	Name the disease and its etiological agent.	2
	2.	Describe the life cycle, pathogenesis and laboratory diagnosis of this condition.	5
	3.	Explain prevention and treatment of this clinical condition.	5
Q.3	Answ	rer in Brief (Any 4 out of 5)	28
	1.	Cutaneous fungal infections.	
	2.	Overview of zoonotic infections affecting the musculoskeletal system.	
		Pyogenic infections in skin and soft tissues.	
		BCG vaccine.	
	5.	Streptococcal pharyngitis.	
		Section 03	
Q.4	What	are catheter-associated urinary tract infections (CAUTIs)?	12
	Expla	in their causes, symptoms, and preventive measures.	
Q.5	Answ	rer in Brief (Any 4 out of 5)	28
	1	. Mechanisms of antimicrobial resistance in hospital-acquired infections.	
	2	. Laboratory diagnosis of bacterial meningitis.	
	3	. Role of Candida albicans in bloodstream infections.	
		. Nongonococcal urethritis.	
	5	Nongonococcal urethritis. Cryptococcus Meningitis ******	
