Enrollment	Ma
Enronment	PHO.



School: School of Science
Program/s: Biomedical Science
Year: 2nd Semester: III

Examination: End Semester Examination

Examination year: December - 2022

Course Code: BM201 Course Name: Medical Microbiology

 Date:
 02/12/2022
 Total Marks:
 40

 Time:
 11:30 am to 1:30pm
 Total Pages:
 3

Instructions:

→ Write each answer on a new page

→ Draw neat and well-labelled diagrams wherever required

Q. No.	Details	Mark s	COs	BTL"
Q.1	Choose the correct option	10		
	The aminoglycosides are a very active group of antibacterial agents, particularly against Gram-negative bacilli. Identify their mode of action from the list.			
	A Disruption of cytoplasmic membrane function B Inhibition of bacterial cell wall synthesis C Inhibition of bacterial DNA gyrase			
	D Inhibition of protein synthesis E Interference with bacterial folic acid metabolism			
	2. Many antiviral drugs act by inhibition of a viral DNA polymerase enzyme.		COI	
	Select the virus for which this class of drugs would be effective. A Cytomegalovirus		CO2	
	B Influenza C Measles		CO3	BTL1,2,3
	D Mumps E Rabies		CO4	
	3. A 35-year-old woman presented with a 3-day history of productive cough, breathlessness and rigors. She was treated empirically with intravenous vancomycin. What is the site of action of vancomycin? A cell membrane integrity B DNA synthesis C peptidoglycan cross-linking			
	D protein synthesis via the 50S ribosomal subunit E RNA synthesis			
	What does Streptococcus pneumoniae cause? A. Boils, septicaemia, food poisoning, wound infections			

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B. Tonsillitis, cellulitis, scarlet fever, septicaemia			
C. Pneumonia., otitis media, meningitis			
D. Endocarditis, dental caries			
5. Which virus is known to cause cervical cancer?			
A. Papillomavirus			
B. Parvovirus			
C. Poxvirus			
D. Paramyxoviruses			
6 What word describes a second of the first of the			
What word describes a mutually beneficial relationship? A Suprophysic			
A. Saprophytic B. Commensal			
C. Symbiotic			
D. Pathogenic			
7. What does the protozoa plasmodia cause?			
A. Ringworm			
B. Malaria			
C. Dysentry			
D. Meningitis			
8. Which of these causes AIDs?			
A. Rhabdoviruses			
B. Retroviruses			
C. Reoviruses			
D. Orthomyxoviruses			
9. What type of antibiotics works by affecting cell wall synthesis?			
A. Beta-lactam antibiotics			
B. Tetracyclines			
C. Aminoglycosides			
D. Macrolides			
D, Macrondes			
10. Which of these is carried by mosquitos?			
A. Influenza			
B. Ebola type hemorrhagic fevers			
C. Dengue hemorrhagic fever			
D. Milkers nodule			
Q.2 Answer the following in short.		COI	
Any five		6163-0	
1. What are the differences between gram positive and gram negative cell		CO2	100
wall? Which one of the two has higher infection capability?	10	CO3	BTL1,2,3
the state of the state between bacteria drug and	,	0.00	,4,5
 What kind of inter-relationship exists between bacteria, drug and host?Prepare a triangular diagram. 		CO4	
- con the temporal acidal and bacteriostatic antibiotics?		47.45	
y a second of view on the cell?		COS	
the boundaristics of fungal infections? Give any one			
5. What are the key characteristics of fungar intections over any			

	example. 6. Explain the parasitic mode of infection citing a suitable example of any one endoparasite.			
Q.3	Answer the following in detail. Any four 1. Describe in detail mechanisms of virus- host interaction for cell damage? 2. Provide detailed insight into the action of Beta Lactam antibiotic action and resistance mechanisms alongwith their suitable examples. 3. Give a detailed account of microlides and tetracyclines in control of bacterial infection. 4. Write a detailed note on malaria? What characteristics of the parasite helps it escape the human immune system? Elaborate 5. Why are fungal infections hard to treat? What makes them so robust? What conditions in the body help them thrive and multiple? Giving examples of any two fungal infections explain the above points at length. 6. Compare and debate on the infection capabilities of a virus vs bacteria citing	20	CO4 CO5 CO6	BTL4.5.6

***********End of Question Paper********