B.Sc. – **MICROBIOLOGY**

I Semester End Examination March/April 2022 General Microbiology

Course Code: MB1DSC01 QP Code:1020 Time: 2 Hours Max Marks: 60

Instructions to candidates:

1) Answer all the sections. Draw diagram wherever necessary.

SECTION-A

I. Answer any 5 of the following.

5x2 = 10

- 1. Define Numerical Aperture with the formula.
- 2. What is disinfection? Give example.
- 3. What is the role of cytoskeleton?
- 4. What is the contribution of Alexander Fleming?
- 5. What are plasmids?
- 6. Write the structure of Golgi complex.

SECTION-B

II. Answer any 4 of the following.

4x5 = 20

- 7. Explain the working principle and construction of dark-field microscope.
- 8. Write the procedure of capsule staining.
- 9. Write the structure of endoplasmic reticulum of an eukaryoticcell.
- 10. Write briefly any 2 methods of preservation of bacterial cultures
- 11. Explain the different types of reproduction in bacteria.
- 12. Explain the salient features of fungi.

SECTION-C

III. Answer any 2 of the following.

2x10=20

- 13. Explain sterilization by dry heat and moist heat.
- 14. Describe in detail the structure of nucleus.
- 15. Write the contributions of Louis Pasteur and Robert Koch.
- 16. Write the structure in detail about the Cell wall of a bacterial cell.

SECTION-D

IV. Answer any 10 of the following

1x10=10

- 17. Which of the following is the mechanism of action of uv radiation?
 - A. Free radicals
 - B. Breaking of hydrogen bonds
 - C. Dimers formation

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D. None of the above.

18. Extremely fine extracellular structure involved in bacterial cell to cell contact is

A. Flagella

B. Pili

C. Cilia

D. Capsule



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19.	Prokaryotic and eukaryotic cells have many differences, but they also share some common features. Which of the following may be found in either type of cell?					
	A. Golgi bodies F	Ribosome	C. Mito	ochondria	Nucleus	
20. Which of these structures is not a part of the bacterial flagella?						
	A. Filament B. Basal	-	C. Lam	•	D. Hook	
21. Endoplasmic reticulum without ribosomes is called						
	B. Rough endoplasmic					
	C. Smooth endoplasmic reticulumD. Non-Ribosomal Endoplasmic reticulum					
	E. Nuclear Endoplasmi	-	culum			L '
22. Which of these statements is false regarding lysosome?						
	a. They are bound by a single membrane					
	b. They contain hydrolytic enzymesc. Lysosomal enzymes are active at a basal Ph					
	c. Lysosomal enzymes are active at a basal Phd. None of the above.					
23. Which type of the microscope helps in getting the three-dimensional picture of the specimen?						
a. Transmission Electron Microscope						
	b. Scanning Electron Microscope					
	c. Compound Microscope					
	d. Simple Microscope					
24. What is the name of the region where double stranded, single circular DNA is found in						
	prokaryotic cell? a. Protonucleus	3. Nucleus		C. Nucleoid	D.	Nucleoplasm
25	. Scientist who disproved	d theory of spo	ontaneo	us generation		
		B. Pasteur	C. Jenr		D. Hansen	
26. The fungi are important of organic matter. a. Producers B. Makers C. Decomposers D. Parasites						
27.In acid fast staining, the counter stain used is						
	a. Crystal violet E	B. Carbol fusc	hsin	C. Methylene	blue D.	Nigrosine
28. Which among the following is used to kill pathogens or prevent infection of animal tissues?						
	a. Disinfection					
	b. Bacteriostatic agent					
	c. Antiseptic					
	d. None of these.					

