	Reg. No
FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019	
(CUCBCSS—UG)	
	Microbiology
MBG 1B 01—GENERAL MICROBIOLOGY	
(2018 Admissions)	
Time	: Three Hours Maximum : 80 Marks
Part A	
Answer all questions.  Each question carries ½ mark.	
1.	The structure associated with motility of bacteria is called ————.
2.	Outer membrane is present in Gram ————————————————————————————————————
3.	Microscopic observation and drawing of bacteria for the first time were done by ————.
4.	The bacteria which live in hot springs or volcanoes are knewn as
5.	The device which focuses light to the objective lenses in a light microscope is termed as ————.
6.	Rabies vaccine was developed by ———.
7.	Give an example for a filamentous fungus.
8.	The high resistance of endospores is attributed to the presence of ———————————————————————————————————
9.	Viruses possess only one nucleic acid. True/False?
10.	are branching filamentous forms of bacteria.
11.	Name a staining technique by which you can assume the presence of capsule.
12.	Rideal-Walker test is to check the efficiency of ———— in comparison with phenol.
	$(12 \times \frac{1}{2} = 6 \text{ marks})$
Part B	
	Answer all questions.  Each question carries 2 marks.
Comment on the following:	
13.	Effect of penicillin on bacteria.

(Pages: 2)

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14. Scanning electron microscopy.

- 15. Kochs postulates.
- 16. Flagellar arrangement in bacteria.
- 17. Glycocalyx.
- 18. Filtration.
- 19. Metachromatic granules.
- 20. Capsid symmetry.
- 21. History of vaccination.
- 22. Protoplast and spheroplast.

 $(10 \times 2 = 20 \text{ marks})$ 

## Part C

## Answer any six questions. Zach question carries 5 marks

Write briefly on the following:

- 23. Ultra structure of barterial Augelia.
- 24. Chemicals sterilants.
- 25. Rideel-Walker test.
- 26. Fluorescent microscope.
- 7 Archaebarteria.
- 28. Structure and functions of icoterial cell membrane.
- 29. Structure of viruses.
- 30 Moist heat sterilization.

18 x 5 = 40 morbs)

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## Answer any Sweet cas vious. Buch question remies 12 marks.

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(2 + 12 = 24 marks)