

Reg. No. :
Name :
I Semester B.Sc. Degree (CCSS - Regular) Examination, November 2014 (2014 Admn.) CORE COURSE IN MICROBIOLOGY 1B01 MCB : General Microbiology

Max. Marks : 40
Time: 3 Hours

## SECTION - A

Answer all questions:

1. Staining techniques were int:oduced by $\qquad$ Robert koch . S. pneuma isacapsulated gram positive diplococci.
2. Double stranded extrachromosomal circular DNA in procaryotes are called Plasmids
3. Selenite $F$ broth is an example for Enrichment media. $q_{\text {mid }}$

Answer very briefly on any seven of the following:
Comment on the following :
5. Resolving power.
6. Bacterial capsules are demonstrated by negative staining method. Why?
7. Locomotory structures present in Protozoans.
8. Differentiate procaryotic and eucaryotic ribosomes.
9. Cold sterilization.
10. Applications of Lawn culture method.
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11. Cryoprotectants.
12. Name any two media used for animal cell culture.
13. Define antibiotics. Give two examples.
14. Mechanisms of resistance of endospores.

## SECTION - C

Answer any four of the following:
15. Describe Koch's postulates.
16. Describe acid fast staining. Name one acid fast bacteria.
17. Write a note on phase contrast microscope. Mention its disadvantages.
18. Differentiate procaryotic and eucaryotic cells.
19. Write a note on different morphological forms of viruses.
20. Distinguish sterilization and disinfection. What are the features of an ideal disinfectant?

## SECTION - D

Answer any two of the following :
21. Why moist heat is more efficient than dry heat for sterilization? Write a note on different methods of moist heat sterilization.
22. With the help of a diagram describe the ultra structure of plasma membrane.
23. Write a note on culture preservation methods.
24. Describe the ultrastructure of bacterial flagella. Discuss the differences between eucaryotic and procaryotic flagella.

