M 7845

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Reg. I	No	 *****	 	 ****
Name		 	 	 

I Semester B.Sc. Degree (CCSS – Regular) Examination, November 2014 (2014 Admn.) CORE COURSE IN MICROBIOLOGY 1B01 MCB : General Microbiology

1022

Max. Marks: 40

 $(4 \times 1 = 4)$ 

Time: 3 Hours

(4:23-

### SECTION-A

Answer all questions :

- 1. Staining techniques were introduced by Robert koch
- 2. <u>S. premo is a capsulated gram positive diplococci.</u> 3. Double stranded extrachromosomal circular DNA in procaryotes are called <u>Plasmids</u>
- media
- 4. Selenite F broth is an example for \_Emichan

## SECTION-B

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

 $(7 \times 2 = 14)$ 

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Compent on the followin

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 ? (4×3=12)

## 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. (2×5=10)