MCB 1000 Applied Microbiology
Chapter 3 Study Questions

1. Define

inoculum	medium (media)
inoculation	pure culture
mixed culture	contaminated culture
contaminants	fastidious
synthetic media	complex media
enriched media	selective media
differential media	incubation
refraction	resolution (resolving power)
smear	field
colony	axenic

2. List and briefly describe the Five I's for culturing microorganisms.

3. List and briefly describe two methods for isolating bacteria.

4. Describe media based on physical characteristics, chemical characteristics and functional types. Give examples in each category.

4. Describe how to determine the total power of magnification for a lens system.

5. List five types of microscopes. Describe their general characteristics and uses.

6. List two types of preparations used to view microorganisms.

7. Differentiate between negative staining and positive staining.

8. Differentiate between simple and differential staining.

9. List and describe the use of three commonly used differential stains.