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Code No. 5516

FACULTY OF SCIENCE
B.Sc. I Year Examination, March/April 2013
MICROBIOLOGY
Paper—I
Introductory Microbiology

Time : Three Hours]

[Maximum Marks : 100]

Note :—Answer ALL questions from Sections A and B.

SECTION—A (Marks : $8 \times 5 = 40$)

(Short Answer Type)

1. Beijerinck.
2. Scanning electron Microscope.
3. Hot air oven.
4. Phenol coefficient.
5. Whittaker and his work.
6. Eukaryotes.
7. pH and its importance.
8. Structure of Maltose and Sucrose.

SECTION—B (Marks : $4 \times 15 = 60$)

(Essay Answer Type)

9. (a) Explain the principle and working of light compound microscope.
(OR)
(b) What is hanging drop method ? Explain its purpose and practice in microbiology lab.
10. (a) Explain different methods of microbial culture preservation and their importance.
(OR)
(b) Write on the methods of microbial pure culture development.
11. (a) Explain the structure and organization of prokaryotic organisms.
(OR)
(b) Describe the structure of HIV and its importance.
12. (a) Explain the general characteristics of amino acids and proteins.
(OR)
(b) Write general structure of a fatty acid and explain the saturated and unsaturated fatty acids for their importance.