

P-238

B. Sc. (Biotechnology) Part - II Examination – 2016

Paper : VI

MICROBIOLOGY

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *all* questions from *Section – A* (Objective type questions), *seven* questions from *Section – B* (Short answer type questions) and *two* questions from *Section – C* (Long/Essay type questions).

SECTION – A

[Marks : 1 × 10 = 10

Note : Answer in *one* word to maximum upto *two* lines.

1. Write two Gram-ve bacteria.
2. Contribution of Joseph Lister.
3. Asymbiotic N₂ fixation.
4. Acetic Acid producing bacteria.
5. Ethanol producing bacterium.
6. Tetanus is caused by which organism.
7. Magnification of simple microscope.
8. Total ATP production by Glycolysis
9. Disease caused by *staphylococcus*.
10. Action of penicillin on bacteria.

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SECTION - B

[Marks : $5 \times 7 = 35$]

Note : Answer any seven of the following :

1. What are differences in Prokaryotic & Eukaryotic cells ?
2. How do fungi differ from yeast and bacteria ?
3. How do Rhizobia fix - N_2 fixation ?
4. What is PFLO ?
5. Write about the characteristics of Mycobacterium.
6. What is Chemo-therapeutic agents ?
7. What is replica plating ?
8. What is TEM ?
9. Theory of biogenesis explanation.
10. Role of bacteria in food fermentation.

SECTION - C

[Marks : $15 \times 2 = 30$]

Note : Answer any two of the following :

1. Write about the different methods for sterilization.
 2. What are different nutritional classes of microorganisms ? Explain with suitable examples.
 3. What are extremophiles ? How do they sustain in such environment ?
 4. Write the industrial production of penicillin.
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