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**BG—16—2016**

**FACULTY OF SCIENCE**

**B.Sc. (First Year) (First Semester) EXAMINATION**

**OCTOBER/NOVEMBER, 2016**

**(CBCS Pattern)**

**BIOTECHNOLOGY**

**Paper (CCBT-4A)**

**(Microbiology-I)**

**(Wednesday, 23-11-2016)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt All questions.*

*(ii) Draw well labelled diagrams wherever necessary.*

1. Describe in detail controversy over spontaneous generation. 8

*Or*

(a) Describe contribution of Robert Koch. 4

(b) Write a note on Louis Pasteur. 4

2. Describe agricultural microbiology. 8

*Or*

(a) Write a note on soil microbiology. 4

(b) Describe medical microbiology. 4

3. Describe the structure of bacterial cell wall. 8

*Or*

(a) Describe structure of bacterial flagella. 4

(b) Describe nucleoid. 4

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4. Describe sporulation in bacteria.

8

*Or*

(a) Describe structure of endospore.

4

(b) Describe cyst.

4

5. Write notes on (any *two*) :

8

(i) A.V. Leeuwenhoek

(ii) Food microbiology

(iii) Capsule

(iv) Germination of endospore.

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