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# ABT-1269 Seat No. _____

## B. Sc. (Sem. I) Examination

**November / December - 2016**

## Biotechnology - CCC - I - CBT - 1 - I

***(Introduction to Biotechnology & Cell Biology)***

Time : **3** Hours] [Total Marks : **70**

**1** Attempted all question : **1×15**

(1.1) cell wall of bacteria composed of
(A) Murin (B) Peptidoglycan
(C) Lipids (D) A+B

(1.2) Bacteria are divide
(A) binary fission
(B) conjugation
(C) locomotion
(D) transduction

(1.3) Biotechnology and Agriculture helps
(A) Bio fuel (B) DNA vaccine
(C) Biochips (D) All

(1.4) Energy sources of cells
(A) Ribosome (B) Golgi bodies
(C) liposome (D) Mitochondria

(1.5) Magnifications if lOX ocular with 45X objective lens
(A) 450X (B) 4.5X
(C) 45X (D) 1045X

(1.6) _____ and _____ is products of medical biotechnology

(1.7) _____ and _____ is domains biotechnology

(1.8) _____ called pili protein.

(1.9) _____ outer structure of bacteria.

(1.10) _____ and _____ types of RNA.

1.11 to 1.15 Match the followings :

| | | | |
|---|---|---|---|
| (1.11) | Resistance plant | (A) | Fish |
| (1.12) | Medical Biotechnology | (B) | Doily |
| (1.13) | Transgenic Animal | (C) | Antibiotics |
| (1.14) | Pharma product | (D) | Arificial blood |
| (1.15) | Clone | (E) | Bt-corn |

2 Attempted any five questions : **3×5=15**

(2.1) Explain term Biotechnology with examples

(2.2) Define application in Green Biotechnology field

(2.3) Draw diagram of eukaryotic cell (Plant cell)

(2.4) Explain morphology of bacteria

(2.5) Define RNA and types.

(2.6) Draw diagram and functions of Golgi bodies

3 Attempted any four questions : **5×4=20**

(3.1) Describe medical biotechnology with examples.

(3.2) Explain dormant structure and function of bacteria

(3.3) Explain microscopy and types

(3.4) Describe endocytosis

(3.5) Describe cell wall of bacteria

4 Attempted any two questions : **10×2 =20**

(4.1) Explain cell cycle and meiosis with diagram of all stages.

(4.2) Describe double helix structure of DNA and functions.

(4.3) Explain scenario of biotechnology and list out various product of it

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