KR-1349 Seat No._____

B. Sc. (Sem. I) Examination

November / December - 2017

Biotechnology : CCC - I

(CBT-1-I : Introduction to Biotechnology & Cell Biology)

Time : 3 Hours] [Total Marks : 70

1 Attempted all questions : 1×15=15

1.1 Magnification of ocular lens in microscope

A. IX B. 45X

C. 5X D. 10X

1.2 Cell wall composition of bacteria

A. Cellulose B. Peptidoglycan

C. Pectin D. A+C

1.3 Product of Green biotechnology

A. Nanochip B. Bt-Cotton

C. Insulin D. Agar

1.4 Protein packages of cell

A. Chloroplast B. Golgi bodies

C. Liposome D. Mitochondria

1.5 Locomotors of bacteria cell

A. Pseudopodia B. Pillus

C. Flagella D. Cilia

1.6 _____ and _____ area under in Red biotechnology.

1.7 _____ and _____ is applied area of biotechnology.

1.8 _____ and _____ is internal structure of plant cell.

1.9 _____ and _____ is gram-positive bacteria.

1.10 _____ and _____ companies of biotechnology.

1.11 _____ function of ribosome.

1.12 Cell cycle phase are in order G1 S G2 M. (True / False)

1.13 Bacterial binary fission is the process that bacteria use to carry out Cell division. (T/F)

1.14 Full form of DNA.

1.15 Full form of R&D.

2 Attempted any five questions : 3×5=15

2.1 Define Biotechnology and their applied areas.

2.2 Explain applications of agriculture biotechnology.

2.3 Draw diagram of animal cell.

2.4 Explain morphology of bacterial cell.

2.5 Write functions of cell membrane.

2.6 Draw labeled diagram of mitochondria.

3 Attempted any four questions : 5×4=20

3.1 Describe Medical biotechnology with examples.

3.2 Explain locomotors structure and functions.

3.3 Describe microscopy and magnification.

3.4 Describe cell membrane with diagram.

3.5 Explain endocytosis.

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

4.1 Explain gram positive and negative bacterial cell with examples.

4.2 Describe meiosis in details with proper diagram.

4.3 Explain chromosomes types and structures.
