GDB-1209

Seat No._____

B. Sc. (Sem. I) Examination

January - 2016

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

Time : 3 Hours] [Total Marks : 70

1 Attempt all questions : 1×15=15

1.1 Cell wall of bacteria composed of
- (A) Phospholipids
- (B) Peptidoglycan
- (C) Bilayer lipids
- (D) Lipidoglycan

1.2 Pilus is required
- (A) binary fission
- (B) conjugation
- (C) locomotion
- (D) transduction

1.3 Biotechnology helps recently in India
- (A) Sustainable Energy
- (B) Cleaning India
- (C) Health Care
- (D) All

1.4 Energy or powerhouse of cells
- (A) ribosome
- (B) golgi bodies
- (C) liposomes
- (D) mitochondria

1.5 Magnification if 10 X ocular with 100 X objective lens

(A) 100 X

(B) 1000 X

(C) 10 X

(D) 100

1.6 _____ and _____ is most popular products of green biotechnology.

1.7 _____ and _____ is domains biotechnology.

1.8 _____ called pili protein.

1.9 _____ Name bacteria, form endospore.

1.10 _____ and _____ types of DNA.

Q. 1.11 to 1.15 Match the followings :

1.11	Resistance	A. Mice
1.12	Medical	B. Dolly
1.13	Transgenic	C. Vaccines
1.14	Pharma	D. Artificial blood
1.15	Clone	E. Bt-cotton

2 Attempt any five questions : 3×5=15

2.1 Explain term Biotechnology.

2.2 Define application in forensic science.

2.3 Draw diagram of eukaryotic cell (Animal OR Plant)

2.4 Explain shape and size of bacteria.

2.5 Define RNA and types.

2.6 Draw diagram of ER.

3 Attempt any four questions : 5×4=20

3.1 Describe Agriculture biotechnology with examples.

3.2 Explain dormant structure and function of bacteria.

3.3 Explain microscopy and types.

3.4 Describe Exocytosis.

3.5 Describe cell wall of bacteria.

4 Attempt 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 functions.

4.3 Explain recent scenario of biotechnology and helps to human society.
