Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute)
Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow
B.Tech
FIRST YEAR (SEMESTER-II) THEORY EXAMINATION   (2020-2021)
(Subjective Type)

Subject Code: ABT0201

Subject: Introduction to Biotechnology

Max. Mks. : 30

Time   : 50 Minutes

General Instructions:

All questions are compulsory.

Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Why are mitochondria known as the "powerhouse of the cell"?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	What is the main function of the chloroplast in a plant cell?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	What is nucleotide?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	Define the term tetrad condition?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	What is homologous chromosomes?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	Define the term chiasmata formation?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	What is genetic code? Write down the features of genetic code?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	What is "transcription" of DNA?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
9	Which DNA double helix do you think would be harder to separate into two strands: DNA composed predominantly of AT base pairs, or of GC base pairs? Why?		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius
10	State the significance of mother’s milk to a new-born infant?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	What is interferon.How do they monitor the infection of new cells?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	Differentiate between B cells and T-cells antibodies?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	Expand GMO. How is it different from a hybrid?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	Name the first transgenic cow. Which gene was introduced in this cow?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	Write two applications of biotechnology.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant