QUESTION PAPER CODE- 52008

University Institute of Engineering & Technology

(Recognised Under Section 2(f) and 12B of UGC)

Kurukshetra University, Kurukshetra

Roll No. -

THEORY EXAMINATION – MAY 2019	
B.TECH – ALL BRANCHES	**SEMESTER - II**

TIME – 3 Hrs.

M.M. - 75

PAPER- BT-101

SUBJECT-Fundamentals of Biotechnology

Note: All questions in Part-A and Part-B are compulsory. Attempt any four questions from Part-C selecting at least one from each unit.

PART-A (15 Marks)

Q. No. – 1 Answer the following questions.

(i)	Describe concept of biology	1
(ii)	Describe the function of endoplasmic reticulum	1
(iii)	Describe the function of ribosome	1
(iv)	Define the term hormones	1
(v)	Describe the proteins	1
(vi)	Define the term fungi	1
(vii)	Define the term virus	1
(viii)	Define the definition of biotechnology	1
(ix)	Define the translation	1
(x)	Define the plasmid	1
(xi)	Definition of biotechnology	1
(xii)	Nanotechnology	1
(xiii)	Define the term gene	1
(xiv)	Define the term Mutation	1
(xv)	Define PGPR	1

PART-B (20 Marks)

	UNIT-I	
2	Characteristic features of living organisms	**5**
	UNIT-II	
3	Explain the diabetes type I & II	**5**
	UNIT-III	
4	Explain the basic concept of genetically modified organisms	**5**
	UNIT-IV	
5	Explain the Bioinformatics	**5**

PART-C (40 Marks)

	UNIT-I	
6	Explain the difference between animal and plant cell	**10**
7	Describe the general classification and important functions of carbohydrates and lipids	**10**
	UNIT-II	

8	Describe theMeiosis and its genetic significance	**10**
9	Give a brief introduction to the morphology and pathogencity of bacteria and protozoa	**10**
	UNIT-III	
10	What is recombinant DNA technology? Describe various steps of r- DNA technology	**10**
11	Explain the production and significance of transgenic animals	**10**
	UNIT-IV	
12	Explain the application of biotechnology in Agriculture, Medicine, Environment and Ind	**10**
13	Explain briefly the Ethical issues related to Biotechnology	**10**