JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- May-2018

B.Tech (BI) II Semester

COURSE CODE: 10B11BI411

MAX. MARKS:35

COURSE NAME: Molecular Genetics

COURSE CREDITS: 04

MAX. TIME: 2 Hours

Note: All questions are compulsory. Be precise. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Write a short note on followings:-

(COII, VI; 1X5 = 5)

- a. Allele
- b. Significance of test cross
- c. Regulatory genes
- d. Operon
- e. Ribosomes

2.	Discuss experimental setup to prove semi-conservative model of replication.	(COIV; 3)
3.	How the length of teleomere is maintained by telomerase?	(COIV; 3)
4.	What are characteristics of the genetic code?	(COIV; 3)
5.	Describe translation termination step in prokaryotes.	(COIV; 3)
	What are riboswitches and how they control gene expression?	(COVI; 3)
		(== , 1, 0)
7.	Describe guide RNA mediated RNA editing mechanism.	(COV; 5)
	Give detailed description of control of gene expression of lac operon of E. coli	(001,5)
en 74		
9.	What do you understand by RNA capping and RNA tailing, give detailed described	(COVI; 5) ription?