

(3); CoI,II

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-1 EXAMINATION – February 2019

B.Tech IInd Semester (All Branches)

COURSE CODE: 10B11BI411	MAX. MARKS: 15
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COURSE NAME: Molecular Genetics

COURSE CREDITS: 04 MAX. TIME: 1HR

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

1.	Draw the structure of chromosome and label its various parts. Discuss various types of	
	chromosome based on position of the centromere.	(3); CoI,II
2.	How the genetic variations are produced by crossing over?	(2); CoI,II
3.	Discuss prophase I.	(2); CoI
4.	4. List three traditional sub-divisions of genetics and summarize what each covers? (1); Co.	
5.	What do you understand by test cross? Give its significance.	(2); CoII
6.	Describe genetic map and physical maps.	(2); CoII

7. Draw genetic map based on following information:-

Gene pari	Recombination Frequency (%)	
A and D	8	
B and D	13	
C and D	23	