JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-1 EXAMINATION, FEBRUARY 2016.

B. Tech VIII Semester (BT/BI)

Subject Code: 15B1WBI834 Subject Name: Computational Molecular Evolution Course Credits: 03	Maximum Marks: 15
	Time: 1Hr.
Attempt all questions. All parts of each question have to be answered in on mobile phone in examination centre will be treated as unfair means case.	e place .Carrying of
Q.1. What is gene duplication? How we date and measure gene duplication	
Q.2. Explain various kind of slelection pressures working on biological sequ	jences? [2]
Q.3. Discuss the evolution of genetic code systems.	
Q.4. What are various steps of retrosequence generation (creation)?	[2]
Q.5. Define genetic (allelic) drift. How it is maintaining equilibrium?	[1]
Q.6. Differentiate between following:	[2]
(a) Homology and homoplasy	[1.5*2=3]
(b) Convergent and divergent evolution	
Q.7. Describe the process of molecular evolution through a simple mathemat	ical model. [2]