PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc., Summer 2017-18 Examination

Semester: 2	
Subject Code: 11202151	
Subject Name: Molecular Biology of the O	Genes

Enrollment No:_____

Date: 09/05/2018 Time: 10:30 AM to 01:00 PM Total Marks: 60

 Figure Make 	tions: uestions are compulsory. es to the right indicate full marks. e suitable assumptions wherever necessary. new question on new page.	
Q.1. A)	Essay type	(08)
	Discuss role of enzymes involved DNA replication.	
Q.1. B)	Answer the following questions (Any two)	
	(a) Brief note (Each of 02 marks)	(04)
	1. Define split genes.	
	2. Define nested genes. (b) Short note on Packing of DNA in to sukervotic chrometin	(04)
	(b) Short note on Packing of DNA in to eukaryotic chromatin.(c) Short note on DNA repair mechanism.	(04) (04)
$(0, 2, \mathbf{A})$	Answer the following questions.	(04)
Q.2. II)	(a) Explain the transcription in prokaryotes	(04)
	(b) Short note RNA i.	(04)
O.2. B)	Answer the following questions (Any two)	
C /	(a) Short note on small RNAs.	(03)
	(b) Short note on zinc finger motif.	(03)
	(c) Short note on leucine zipper.	(03)
Q.3. A)	Essay type	(08)
	Explain post translational modifications.	
Q.3. B)	Answer the following questions (Any two)	
	(a) Brief note (2x2M)	(04)
	1. Define Leader sequences.	
	2. Define Promoter genes.	
	(b) Short note on properties of the genetic code.	(04)
	(c) Explain role of Ribosome as a translation factory.	(04)
Q.4. A)	Answer the following questions.	
	(a) Short note DNA methylation.	(04)
$\mathbf{O} \mathbf{I} \mathbf{P}$	(b) Short note environmental regulation of gene expression.	(04)
Q.4. B)	Answer the following questions (Any two) (a) Short note protei targeting.	(03)
	(a) Short note proter targeting. (b) Short note on negative control of lac operon.	(03)
	(c) Short note on attenuation in trp operon.	(03)
	(c) short note on attenuation in up operon.	(03)