(Following Paper ID and Roll No. to be filled in your Answer Books)										
PAPER ID : Roll No.										
B.TECH.										
Theory Examination (Semester-IV) 2015-16										
GENETICS & MOLECULAR BIOLOGY										
Time : 3 Hours						M	lax. N	1arks	s : 10	0
 Q.1. Attempt all Parts. Write answer of each section (a) Write the difference between gene and chromoso (b) What is the termination codon in translation proce (c) Explain the law of genetics. (d) What do you mean by genetic inheritance? (e) Explain genetics code. (f) Write down the role of sigma factor in transcription (g) What are Multiple alleles? (h) What do you mean by linkage? (i) What are DNA Polymerases? (j) What is split gene? SECT Q.2 Attempt any five parts from this section. All parallelis and the difference between the nucleotide b) Explain mutation deletion techniques and its c) Write down Hardy-Weinberg principal. Expl d) Write short notes on RNA splicing and m-RNe) What do you mean by transposable element at f) Explain central dogma of life. 	me? ess? on. on. rts carr e and n applica ain qua VA pro	B ry equilation antiticess	eosid 1s. ative sing.	e? genet		5	(5×10 nce.		0×2=	=20)
g) Discuss the experimental proofs which explah) Explain crossing over.	in that	DN	A 18	geneti	c mat	erial.				
SECT	'ION-(2								

BT-406/EBT-403

(2×15=30)

Attempt **any two Parts** from this section.

Printed Pages :

Q.3. Discuss about the Classification and types of Mutation.

Q.4. Explain DNA replication in prokaryotes and eukaryotes.

Q.5. (a) Discuss operon structure and its positive and negative control.

(b) Briefly explain to prepare the coliption of E c