

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester - Spring 2022

Roll No.

Time: 3 Hrs. Marks: 60

Paper: Biology –I Course Code: BIO-111

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

ii.	Write about importance of Hydrogen ion in biological systems? Differentiate between sex-chromosomes and autosomes?		
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iii.	What are the two modes of energy acquisition?		
iv.	Sketch the structure of purines?		
v.	Differentiate between the DNA and RNA.		
vi.	What Are the Disadvantages of Genetic Engineering?		
vii.	What is the main purpose of biotechnology?		
viii.	What are multiple alleles?		
ix.	Write about Genomic imprinting?		
x.	Describe the incomplete dominance and codominance?		
xi.	Write aboutphenotype and genotype?		
xii.	Differentiate between nucleotide and nucleoside.		
xiii.	What are the three main purposes of metabolism?		
xiv.	What are the Principle threats to biodiversity?		
xv.	How is RNA related to proteins?		
Q.2. A	Answer the following questions:		(3x10=30)
1 (a)	Write in detail about Mendelian inheritance patterns.	6	
(b)	Explain types and function of RNA.	4	
2 (a)	What are the 8 stages of meiosis? Explain each.	6	
(b)	Explain Autosomal recessive inheritance?	4	
3 (a)	Write in detail about structure of DNA.	6	
(b)	Explain how the can we conserve biodiversity?	4	