PRN:		Course Code:	U25PC101

First Year B. Sc. End Semester Examination Winter 2024

General Biology

000593

Day and Date: Mon 2 DEC 2024 Max Marks: **50**

Time: 10:30AM To 12:30PM Duration: **02 hrs**

Instructions: 1) All questions are compulsory.

2) Draw well labelled diagram wherever necessary.

			Marks	Bloom's Level	CLO
Q.1		**Attempt the following**	**10**		
	a)	How do open and closed vascular bundles differ in angiosperms?	02	L1	2
	b)	Describe the role of chlorophyll in photosynthesis.	02	L1	3
	c)	Describe the main morphological feature that distinguishes fish from other vertebrates.	02	L1	1
	d)	What constitutes a balanced diet?	02	L1	5
	e)	Describe the structure of an ATP molecule.	02	L1	4
Q.2		**Attempt any two from the following**	**10**		
	a)	Explain the structure of a typical flower in detail using a well-labelled diagram.	05	L3	2
	b)	Describe the classification of vascular bundles in brief.	05	L1	1
	c)	Explain role of growth substances in application of Agri-horticulture.	05	L1	3
Q.3		**Attempt any two from the following**	**10**		
	a)	Write a detailed note on photosynthesis and its significance.	05	L1	3
	b)	How do plants fix atmospheric nitrogen and nitrogen metabolism?	05	L2	3
	c)	Explain in detail dormancy, storage and germination of seed physiology.	05	L2	3

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Q.4		**Attempt any two from the following**	**10**		
	a)	Discuss the various blood groups in human beings.	05	L3	4
	b)	With the help of a neat labelled diagram, explain the ultrastructure of kidney.	05	L2	4
	c)	Describe the idea of basal metabolic rate (BMR) and its role in human physiology.	05	L1	5
Q.5		**Attempt any two from the following**	**10**		
	a)	State the role of Salivary glands in digestion.	05	L2	4
	b)	Describe in detail how food is absorbed and digested.	05	L2	5
	c)	Describe energy balance and its significance for preserving a healthy body weight.	05	L2	5

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