CBCS SCHEME

USN | | | | | | | | | | |

BBT306D

Third Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024
Plant Physiology and Phytohormones

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Describe in detail the definition and scope of Plant Physiology.	10	L2	CO1
	b.	Illustrate the different transport mechanisms involved in nutrient uptake in plants.	10	L3	CO2
		OR			
Q.2	a.	Explain the process of water uptake and transport in plants.	10	L2	CO1
	b.	Reveal the role of different minerals nutrients in plant growth.	10	L3	CO2
		Module – 2			
Q.3	a.	Outline the different steps involved in Calvin Cycle.	10	L2	CO1
	b.	Analyse the different factors affecting the photosynthesis process.	10	L4	CO3
		OR			
Q.4	a.	Describe the different steps involved in Electron Transport Chain.	10	L2	CO1
	b.	Emphasize the different chlorophyll pigments in plants. Add a note on its importance.	10	L4	CO3
		Module – 3			
Q.5	a.	Illustrate the role of auxins in plant growth and development.	10	L3	CO2
	b.	Highlight the physiological effects and functions of Abscisic Acid.	10	L2	CO1
		OR			
Q.6	a.	Interpret the role of cytokines in plant growth and development.	10	L3	CO2
	b.	Outline the role of ethylene in plant physiology.	10	L2	CO1
		Module – 4			
Q.7	a.	Elaborate on photomorphogenesis and photoperiodism.	10	L3	CO2
	b.	Enumerate on different types of tropisms in plants.	10	L2	CO1
		OR			
Q.8	a.	Manifest the process of seed germination and dormancy.	10	L3	CO2
	b.	Write short note on : i) Nyctinasty ii) Eismonasty.	10	L2	CO1

		Module – 5			
Q.9	**a.**	Describe plant responses to biotic stress.	**10**	**L2**	**CO1**
	b.	Highlight different plant defence mechanism.	**10**	**L3**	**CO2**
		OR			
Q.10	**a.**	Discuss plant response to abiotic stress.	**10**	**L2**	**CO1**
	b.	Delineate the plant response to temperature , water and nutrients during stress.	**10**	**L3**	**CO2**

* * * * *