Paper / Subject Code: 24236 / Botany: Form & Function III

			05.00
Tin	ne – 3 hr.	Marks	- 100
	N.B.	1. All questions are compulsory.	
		2. Draw neat labelled diagrams wherever necessary.	
~ 4		3. All questions carry equal marks.	
Q.1	Attempt any two		20
a	Describe with examp	oles, any three features of the genetic code.	S. Par
b	What is translation wo of the initiation comp	vith reference to protein synthesis? Explain the process of the formation plex during translation.	
C	Describe the structur	e and explain the different functions of the nucleolus.	326
d	Describe the process	of addition of adenines as a step of pre mRNA processing	
Q.2	Attempt any two		20
a	With the help of exar	mples, explain the role of pumps in transport of solutes across	3.00
	membranes in a plant	t cell. PANGERS EXTRACTORS	57
b	Define water potentia	al. What are its components? Explain in detail each component.	
C	What is Munch's hyp	pothesis of passive transport? Explain with an experiment. Add a note on	
	its demerits.		
d	Define transpiration.	What are the various modes of transpiration in plants?	
Q.3			
a	What is meant by bio	oremediation? Discuss the principles involved in bioremediation.	
b	Describe the process	of in situ bioremediation with examples.	
С	Define plant successi	on. Explain any three stages of a Hydrosere citing examples of plants in	
	each stage.		
d	What is the process o	of succession observed in Lithosere?	
~ 4	4.0		
⊋.4			20
a			
b	Explain the steps inv	olved in micropropagation with reference to cultivation of Orchids.	
C	what are artificial sec	eds? Describe the procedure for the production of artificial seeds.	
d	Describe the steps in	volved in Shikonin production	
).5	Attempt any four		
2.3			20
b	Osmosis and its types Phloem loading		
c	Sequestration of toxic		
	Phytostabilisation	Note Hoomer 2000 Control of the Cont	
6	Monoclimax theory		
f	Importance of cell su	spension culture	
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