Code: 044



DELHI PUBLIC SCHOOL SURAT BIOLOGY

Roll No:	Class:	XI	
Marks: 70	Time Allowed: 3 H	Time Allowed: 3 Hrs.	
marks each, Section B commarks each, Section D commarks each.	ts of five sections A, B, C, D and E. Section A contains 5 questions tains 5 questions of 2 marks each, Section C contains 12 questions nations 1 question of 4 marks and Section E contains 3 questions iagrams drawn should be neat and properly labeled.	of 3	
	SECTION A		
 Write the function of Gliss What is meant by unipolar Give the significance of forms 	r neuron? Where do you find them?	[1] [1] [1] [1]	
	SECTION B		
especially in pollution.		[2]	
7. (a) Define bioluminescend	ce.	[2]	
· · · · ·	if spermatophore and ootheca are to be removed.	[2]	
9. Rama has a kitchen garder observed spherical outgrown (a) What are these spherical (b) Why is the cut part of (c) Name the enzyme resput (d) Name the microbe, who will be the control of the control	these outgrowths showed pink colour? consible for fixing nitrogen in root. nich produces such outgrowths in non-leguminous plants.	[2]	
10. Write the four major photo	ochemical events of light reaction.	[2]	

SECTION C

11.	Draw a table to show types of algae, their common name, stored food, cell wall and the number of floralle	[3]
12.	of flagella. Write the floral formula for the family Fabaceae. Draw floral diagram for the same.	[3]
13.	Draw a neat-labeled diagram to show T.S. of dicot leaf.	[3]
14.	'A' is an organelle, which imparts specific colours to the plants.	[3]
1-1-	(a) Identify the organelle.	[O]
	(b) What if elaioplast are removed?	
	(c) Draw a neat- labeled diagram of 'A'.	
15.	Give diagrammatic representation of the following:	[3]
10.	(a) Glucose	[0]
	(b) Portion of B DNA	
	(c) A pyrimidine	
16.	Give diagrammatic presentation of the following:	[3]
100	(a) Metaphase I	[c]
	(b) Prophase I	
	(c) Anaphase	
17.	Give reasons:	[3]
	(a) Mycorrhiza is very important in pinus.	[-]
	(b) During rain, a wooden door is difficult to close.	
	(c) Apoplast pathway is faster as compare to symplast pathway.	
18.	Explain glycolysis in brief.	[3]
19.	Explain in brief the phenomenon 'photoperiodism.' Why Auxin is considered as a very	[3]
	important phytohormone.	
20.	(a) Define vital capacity.	[3]
	(b) Write the reaction catalyzed by carbonic anhydrous.	
	(c) Give the statistics for transport of gases.	
21.	Discuss in brief the regulation of kidney function.	[3]
22.	'Muscle movement takes place due to the contractile protein present in the muscle fibre.'	[3]
	Describe the structure of contractile protein in brief.	
	SECTION D	
23.	Differentiate between monocot and dicot root. Draw appropriate diagram for the same.	[4]
	Differentiate between monocot and dieot root. Draw appropriate diagram for the same.	Γ.1
	SECTION E	
24.	(a) Define cell cycle. Give a diagrammatic view of cell cycle and depict the events in the same.	[5]
	(b) What is the characteristic event of diakinesis?	r. 3
	(c) What is meant by bivalent?	
25.	Describe the process of fixation of Carbon dioxide given by Hatch and Slack. Draw a neat-	[5]
	labeled diagram to show the details.	
26.	Smita with A blood group met with and accident and required blood. Her daughter with B	[5]
	blood group offered but the doctor denied. Later, she was given her friend's blood.	
	(a) Why did the doctor refuse Smita's blood?	
	(b) Make a table to show blood groups, antigen and antibodies.	
	(c) What is erythroblastosis foetalis? How is it avoided?	