CODE: SET 1

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION **HALF YEARLY EXAMINATION 2018-19**

TOTAL PAGES:3

CLASS: XI TIME: 3 HRS **SUBJECT: BIOLOGY** MM: 70

INSTRUCTIONS:

- There are total 27 questions and four sections in the question paper. All the questions are compulsory.
- Section A contains question number 1 to 5, very short answer type questions of 1 mark each. ii.
- Section B contains question number 6 to 12, short answer type I questions of 2 marks each. iii.
- iv. Section C contains question number 13 to 24; short answer type II questions of 3 mark each.
- ٧. Section D contains question number 25, 26 and 27 questions of 5 marks each.

Q. No	Question	Marks
	SECTION A	
1	What are stilt roots ? Give 2 examples	1
2	What is Activation energy ?	1
3	What are Bacteriophages?	1
4	What is metabolism?	1
5	What are cofactors?	1
	SECTION B	
6	What are Heterocysts? Where they are found?	2
7	Write the general features of kingdom fungi.	2
8	Describe the structure of nerve cell with the help of labeled diagram.	2
9	Write the difference between root hairs and stem hairs?	2
10	Name the essential and accessory whorls of a flower?	2
	OR	
	Answer the following with reference to anatomy of dicot stem:	
	a) How are xylem vessels arranged?	
	b) What type of cells constitute the pith?	
11	Define the following:	2
	a) Binomial nomenclature	
	b) Dikaryon	
12	What is competitive inhibition? Explain with an enzyme.	2
	SECTION C	
13	Ŭ ,	3
14	Define Placentation. Explain the various types of placentation seen in plants.	3
	OR	
1 -	What is Phyllotaxy? Explain the various types of Phyllotaxy	2
15	Define Hypogynous , Perigynous and Epigynous flowers.	3
16	Show the internal structur(T.S) of dicot root with the help of neat labeled diagram.	3
17	Write the significance of Meiosis.	3
18	Describe the different steps involved in the catalytic cycle of an enzyme action.	3
19	What is mesosome in a prokaryotic cell? Mention the function that it performs.	3
20	Explain the excretory system of Cockroach in detail.	3
21	Difference between RER & SER	3
22	What is double fertilization? What are the products of double fertilization?	3
23	Show the digestive system of Cockroach with the help of labeled diagram.	3
24	Draw the structure of	3
	a) Glucose b) ribose c) Aminoacids	
	SECTION D	
25	Describe the structure of DNA and mention it's function.	
	OR	5
	Explain the primary, secondary, tertiary and quaternary structure of protein molecule with example.	

26	Explain the various types of complex tissues and mention their functions.	5
	OR	
	Explain the various types of stem modifications with the help of examples.	
27	Differentiate the following	5
	(i) Cartilaginous fishes and Bony fishes.	
	(ii) Poikilothermy and Homiothermy	
	OR	
	Write the general features of class Aves and Mammalia.	