

DATE: 23-10-2019

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27

B.Sc., ZOOLOGY –V SEMESTER SEMESTER EXAMINATION- October 2019 **ZO 5215- ECOLOGY, WILDLIFE AND ANIMAL BEHAVIOUR**

Time: 2-1/2hrs Maximum marks: 70

This question paper has 2 printed pages and 3 parts

PART A

I.	Answer the following questions. Each question carries 1 mark 15X1=19					
1.	The organisms which move across the water current are called as					
	a) Neuston b) Benthos c) Plankton d) Nekton					
2.	of Notonecta and Corixa are same.					
	a) Niche b) Habitat c) Feeding d) Predators					
3.	is a sessile animal in the freshwater biota.					
	a) Clam b) Chironomous c) Spongilla d) Snail					
4.	larvae migrate from its breeding ground to freshwater to become adult.					
	a) Tornaria b) Ammocoetes c) Leptocephalus d) Planula					
5.	The utilization of energy at different trophic levels is best explained by					
	energy flow model.					
	a) Universal b) Z-shaped c) Y-shaped d) Single channel					
6.	Most hazardous metal pollutant in automobile exhaust is					
	a) Lead b) Mercury c) Zinc d) Copper					
7.	Bioaccumulation of cadmium does not occur in					
	a) Kidneys b) Liver c) Animal fat d) Tobacco					
8.	does not cause biomagnifications through food chain and food web.					
	a) Heavy metals b) DDT c) Polychlorinated biphenyls d) Copper					
9.	is the first national park established in India.					
	a) Kaziranga b) Jim Corbett c) Sunderbans d) Nanda Devi					
10.	Chipko movement started in Chamoli district.					
	(True/ False).					
11	A biodiversity hotspot is a region with high level of species.					

	a) Rare) Rare b) Endangered c) Threatened		hreatened	d) All of these			
12.	The simplest known circadian rhythm is exhibited by							
	a) Cyanobac	teria b) Ara	abidopsis	c) Catfish	d) Zooplankton			
13.	uses scent of excreta as a means of communication.							
	a) Crickets	b) Sea star	c) Rabbit	d) Gypsy mo	oth			
14.	In behaviour, animals try to ignore repeated stimulus.							
	a) Imprinting	b) Ha	bituation	c) Instinct	d) Motivation			
15.	is an environmental stimulus that entrains a biological clock.							
	a) Geotaxis	b) Lightning	c) Zeitgebe	r d) None of t	hese			
	PART B							
II.	Answer any FIVE questions. Each question carries 5 marks 5X5=2							
16.	What are the characteristics of energy flow in an ecosystem?							
17.	Differentiate between grazing and detritus food chains.							
18.	What is cyclomorphosis? Explain with suitable examples.							
19.	'Polluted water sometimes smells like rotten eggs'. Give reasons.							
20.	Briefly explain: a) Factors which regulate population growth. b) If the population of 50							
	amoebae in a pool is increased to 150 after an hour, calculate the growth rate.							
21.	Write a short note on ex-situ conservation of wildlife.							
22. With suitable examples, explain operant conditioning.								
			F	PART C				
III.	Answer any	THREE quest	ions. Each q	uestion carries	s 10 marks	10X3=30		
23.	Explain the zonation of a marine ecosystem with suitable illustrations and examples.							
24.	Define Productivity. Explain the various methods involved in measurement of primary							
	productivity in	n an ecosystem	۱.					
25.	Give a detailed account of positive animal associations using suitable examples.							
26.	Describe the components of a pond ecosystem with suitable examples.							
27.	Explain the significance of sound communication in animals.							