PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2017 (Third Semester)

Branch- ZOOLOGY

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<u>CHEMISTRY -1</u>			
Time	: Three Hours Maximum : 75 Max	rks	
SECTION-A (20 Marks)			
	Answer ALL questions		
	ALL questions carry EQUAL marks (10x2)	= 20)	
1	What are the different types of orbitals?		
2	Write about reducing agent with example.		
3	Give any two uses of polyethylene.		
	Write any two properties of nicotine.		
	5 What is chemotherapy?		
6	C		
7 • What is molecularity of a reaction?			
8 What is enzyme?			
9	What is meant by air pollution?		
What is chemical oxygen demand (COD)?			
SECTION - B (25 Marks)			
Answer ALL Questions			
ALL Questions Carry EQUAL Marks $(5x5 = 25)$			
11 a	Write a short note on (i) Pauli's exclusion principle (ii) Aufbau princip OR	ole. (3+2)	
b Describe VSEPR theory.			
12 a Write the preparation, properties and uses of piperine. • OR			
b Discuss the preparation and uses of Teflon.			
13 a What are anesthetics? Give their uses. OR			
b	Discuss about the classification of dyes based on structure.		
14 a Derive the expression of rate constant for the first order reaction.			
OR			
b What are the characteristics of catalytic reaction?			
15a D	viscuss the types of pollutants. OR		
b What is acid rain? Write its causes.			
	SECTION - C (30 Marks) Answer any THREE Questions		
ALL Questions Carry EQUAL Marks $(3x10 = 30)$			
16 i)	Write the shapes of BF ₃ , SF ₆ , PC1 ₅ .	(6)	
ii)		(4)	
17	Describe the preparation, properties and uses of nicotine. (4+4-	` '	
18	Define the term 'Antispetic' Discuss the uses of chloramine - T, Iodoform and Dettol.		
19 i)	Write note on complex reactions.	(8)	
ii)		(2)	
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20 i) Describe the various steps involved in the v/ater treatment process.

ii) Give the definition of BOD.

(7)

(3)