## **SAMPLE QUESTIONS**

## **BOTANY**

1.	In which of the following plants, pollen is released before the stigma becomes receptive in the same												
	flov (1)	wer? Solanum			(2) A	llium		(3) Col	chicum	(4) Datura			
2.	A cross between two tall garden per parents are  (I)TT,TT  (II) TT,Tt						ea pla	ea plants produced all tall plants. The possible genotypes of the					
	` ,				(11) 1	1,11		(111) 11, 11			(17) 11, 1	l	
	The (1)	The correct answer is :  1) II,III			(2) II	I, IV			(3) I,IV	(4	4) 1,11		
3.	Ма	Match the following lists:  List – I  (A) Salvinia  (B) Lichens  (C) Rhizophora  (D) Utricularia					(I) (II) (III) (IV) (V)	Д Н S	List -II ubmerged, suspended hydrophyte Amphibious plant Heterosporous plant Soil formation				
	The	The correct answer is:							Г	lalophyte			
		(1 (2 (3 (4	) II ) V	Í I '	(B) IV II III	(C) V V IV I	(D)           						
								ZOOL	OGY				
	Male heterogametic sex, XX XO type of sex determination is found in												
		(1)	Droso	phila	(2) Bı	utterflie	es (3)	Moths	(4) Gras	sshopers			
	2.	Match th	ne follo	wina	with	referer	nce in	adapta	ations:	·			
				9	List						List – II		
		(A) Sea gulls (B) Kangaroo rat (C) Turtles (D) Salmon								(II) Wate (III) Salt (IV) Oxida	ride secreting gler cells in rumen excreting glands ation of fats to glromous migrati	i S generate water	
		The corr	ect ma	atch is	s:								
				(A)	(B)	(C)	]) (	D)					
			(1) (2) (3) (4)	III II III	IV IV II	I III I IV	,	√       					
	Erythropoietin is a harmone produced from												
	(1) Kidney (2) Thymu				ıs	(3) Pitu	ıitary	(4)Heart					

GMET-2015 SAMPLE QUESTIONS

					PHYSI	CS							
1.	-	A body is projected horizontally from the top of a tower with a velocity of 10m/s. If it hits the ground at an angle of 45°, the vertical component of velocity when it hits the ground in m/s is											
	(1)	10 (2) 10	/2		(3) 5√2	(4) 5							
2.		one in carryi of the circle	in carrying an electric charge $Q_1$ once round a circle of radius R with a charge $Q_2$ a he circle is										
	(1)	0	$(2) \frac{Q_1}{4\pi\varepsilon}$	Q <sub>2</sub> oR	(3) ∞	(4)	$\frac{Q_1Q_2}{4\pi\varepsilon oR^2}$						
3.	A plane electromagnetic wave travels in free space. Then the ratio of the magnitudes of electric and magnetic fields at a point is equal to												
	(1) (2) (3) (4)	<ul><li>Inverse of the velocity of the electromagnetic wave</li><li>Inverse of the energy of the electromagnetic wave</li></ul>											
	CHEMISTRY												
1.	Among the following inert gas elements, the element that shows highest chemical reactivity								nemical reactivity is				
	(1)	Xe	(2)	Ne		(3)	Ar	(4) He					
2.	Identify the compounds from the following which form primary amines under suitable reduction conditions.												
	(1)	C <sub>2</sub> H <sub>5</sub> NC		(2)	C <sub>2</sub> H <sub>6</sub>		(3)	C <sub>2</sub> H <sub>5</sub> CONH <sub>2</sub>	(4) C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>				
	The c	orrect answe 2,3,4	er is :	(2)	1,4		(3)	3,4	(4) 1,3,4				
3.	Observe the following reaction and choose the correct answer $2NO_2(g)+2OH^-(aq) \rightarrow NO_2^-(aq)+NO_3^-(aq)+H_2O(\ell)$												
	<ul> <li>(1) NO<sub>2</sub>(g) is reduced to NO<sub>3</sub><sup>-</sup>(aq) and oxidized to NO<sub>2</sub><sup>-</sup>(aq)</li> <li>(2) OH<sup>-</sup> is oxidized to H<sub>2</sub>O</li> <li>(3) OH<sup>-</sup> is reduced to H<sub>2</sub>O</li> <li>(4) NO<sub>2</sub>(g) is reduced to NO<sub>2</sub><sup>-</sup> (aq) and oxidized to NO<sub>3</sub><sup>-</sup>(aq).</li> </ul>												