Total No.	of Questions :8] SEAT No.	:
P1743	[Tot	al No. of Pages : 2
	[5230] - 102	
	M.Sc.	
	<b>ENVIRONMENTAL SCEINCE</b>	
	<b>EVSC-102: Environmental Chemistry</b>	
	(2013 Pattern) (Semester - I)	
Time : 3 1	Hours]	[Max. Marks :50
Instructio	ns to the candidates:	
	Solve any five questions from the following.	
	Neat and labeled diagrams must be drawn wherever necessary.  Figures to the right indicate full marks.	
<i>3)</i>	rigures to the right matche full marks.	
<i>Q1)</i> Ans	swer the following:	[10]
a)	What are the corcinogenic effects of afla toxins.	
b)	Write a brief note on DNA structure.	
<b>Q2)</b> Wri	te a short note on:	[10]
a)	Detecter in NAA.	
b)	Applications of isotope dilution method.	
<b>Q3</b> ) Exp	olain in brief:	[10]
a)	Process of destruction of alkali metals.	
b)	Merits and demerits of X R F.	
<b>Q4)</b> Ans	swer the following:	[10]

a) What is embryogenesis? Explain mutation and gene control during embryogenesis.

b) Explain the hydrogen bonding in biological system.

Q5)	Explain the principle and application of		
	a)	Polorography.	
	b)	Gas chromatography.	
<b>Q6)</b> Answer the fo		wer the following:	[10]
	a)	Explain the various components and its role in HPLC.	
	b)	Explain the physical and chemical properties of head.	
Q7)	Drav	w a neat labelled diagram of-	[10]
	a)	Atomic absorption spectroscopy.	
	b)	Flame photometery.	
Q8)	Write short notes on:		[10]
	a)	Modified detergents.	
	b)	Micro and macro plant micronutrients.	
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