## Msc. II - Sem. IV - oct. 2016 Analy. Chem - paper III

QP Code: 76706

[ Total Marks: 60

		(2½ Hours) [ Total Marks:	60
i.	N. I	B.: (1) All questions are compulsory.  (2) Use of log table or non programmable calculator is permitted.	
1.	(a)	Attempt any two of the following:  (i) How does the metallurgical industry contribute in pollution of potable water reservoirs?  (ii) Define the term "Sewage". Give importance of sewage.	827
		<ul><li>(iii) Discuss the primary treatment of effluent from fertilizer industry.</li><li>(iv) Explain the significance of COD and BOD with respect to pollution.</li></ul>	
	(b)	Discuss electro-dialysis with reference to the recovery of metals from the industrial effluent.	4
	(b)	With the help of suitable diagram, explain the working of industrial effluent treatment plant.	4
2.	(a)	(i) Discuss the importance of 3k for managing solid waste.  (ii) Justify – "Disposal of bio-medical waste needs special	8
		attention"  (iii) What are the sources of solid waste? How are they classified?  (iv) Write note on "Managment of non-decomposable solid"	,
	(b)	waste"  Discuss the advantages and limitations of incineration method of disposal of solid waste.  OR	4 \
	(b)	What are the occupational hazards associated with waste handling?	8
3.	(a)	Attempt any two of the following:—  (i) What is meant by fractionation of plastics?  (ii) How are the paints classified?  (iii) What are various ingredients of paints? Explain their role in paint.	
ç		(iv) List the inorganic pigments used in plastic. How are they analyzed? [TURN O	VER

ore"

used for opening of ores, in the sequence of choice?

(v) Elaborate the role of paint in corrosion resistance.

(vix) Give the method of analysis of ethylene based plastics.

(vii) Explain the term "opening of ore". What are the suitable solvents

(viii) Write short note on "froth flotation process of concentrating the