PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018

(Second Semester)

Branch - ENVIRONMENTAL SCIENCE

SOIL POLLUTION AND SOLID WASTE MANAGEMENT

			m: 75 Marks	
	Answer ALL questions ALL questions carry EQUAL marks (5)			
1	a	Define the composition of soil and write notes on its basic properties.	(7)	
	b	What are the major micronutrients in soil and how it is significant? OR	(8)	
	c	Outline the sources of heavy metals in soil.	(7)	
	d	List out the agro-chemicals in soil and its toxicity.	(8)	
- 2	a	What is the composition of municipal solid waste in Indian cities and how it varies?	(8)	
	b	Can we improve solid waste management methods in India? Suggest. OR	(7)	
	С	Explain the process of composting and vermi-composting with neat sketch.	(15)	
3	a	Discuss the various methods to manage e-waste.	(7)	
	b	Discuss different types of hazardous waste treatment methods. OR	(8)	
	c	Illustrate the recycling methods of hazardous wastes.	(8)	
	d	Write notes on safe means of storage and transportation of hazardous wastes.	(7)	
4	a	State the salient features of Environmental Protection Act 1986.	(7)	
	b	How fly ash can be effectively used? Discuss pros and cons. OR	(8)	
	c	Discuss about the Manufacture, Storage and Import of Hazardous Chemical Rules – 1989. (5)		
	d	Briefly explain Chemical Accidents Rules 1996.	(10)	
5	a	How to treat infectious wastes? Explain.	(7)	
	b	Briefly explain E-waste (Management and Handling) Rules 2011. OR	(8)	
	c	Write notes on (i) Recycled Plastics Manufacture and Usage Rules - 1999 (ii) Classification of biomedical wastes.	(15)	