

# **PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)**

**MSc DEGREE EXAMINATION DECEMBER 2025**  
**(Second Semester)**

## **Branch - ENVIRONMENTAL SCIENCE**

# **INTEGRATED WASTE MANAGEMENT**

Time: Three Hours

Maximum: 75 Marks

### **SECTION-A (10 Marks)**

## Answer ALL questions

**ALL** questions carry **EQUAL** marks (10  $\times$  1 = 10)

**Cont...**

**SECTION - B (35 Marks)**

Answer ALL questions

**ALL questions carry EQUAL Marks (5 × 7 = 35)**

Question No.	Question	K Level	CO
11.a.	Summarise the steps involved in the solid waste management process from source to disposal.  (OR)	K2	CO1
11.b.	Explain the factors affecting the waste generation rate.		
12.a.	Elaborate on the biological aspects of waste characterization.  (OR)	K3	CO2
12.b.	Elaborate on the necessity of the waste characterization process.		
13.a.	Provide an account on the scope of the life cycle assessment.  (OR)	K3	CO3
13.b.	Identify the benefits involved in the energy generation from solid wastes.		
14.a.	What are hazardous wastes? How are they disposed of?  (OR)	K2	CO4
14.b.	Elaborate on the characteristics of hazardous wastes.		
15.a.	Analyse e-waste as solid waste and recovery products.  (OR)	K3	CO5
15.b.	Give an account on the concept of social entrepreneurship.		

**SECTION -C (30 Marks)**

Answer ANY THREE questions

**ALL questions carry EQUAL Marks (3 × 10 = 30)**

Question No.	Question	K Level	CO
16.	Write an essay on 'The generation and management of solid waste in India'.	K4	CO1
17.	Simplify the process for solid waste processing and material recovery.	K3	CO2
18.	How long has the 4'R concept succeeded in terms of plastic waste? Analyse.	K4	CO3
19.	Elaborate on the treatment process of hazardous waste.	K2	CO4
20.	Elaborate on the adverse effects on construction and demolition waste and the regulations governing.	K3	CO5