

Subject Code: 114431 / Open Elective – Waste Management
SE (SEM III) (ALL BRANCHES) (NEP 2020 C SCHEME III)

Question paper code: -

DURATION: 2 hours

Note:

MARKS: 60

- (1) Question number 1 is **COMPULSORY**.
- (2) Answer **ANY Three** questions from Q2 TO Q6.
- (3) Figures to the **right** indicate **full marks**.

1	Attempt any five of the following	M	BL	CO
(a)	Write a note on biomedical waste management.	3	R	1
(b)	Write effects of waste on human health and the environment.	3	U	1
(c)	What types of bins are used in municipal solid waste collection services?	3	U	2
(d)	What are the different ways to dispose of the waste?	3	U	2
(e)	Define policy instruments and write down its types.	3	R	3
(f)	What are the challenges in policy implementation?	3	U	3
(g)	Write a difference between organic and inorganic waste.	3	A	4
2	(a) Write a definition of waste management and explain the methods of waste management.	5	U	1
(b)	Write methods of composting and explain conditions for efficient composting.	5	U	4
(c)	What is the role of central & state agencies in waste management policy enforcement?	5	R	3
3	(a) Define E-waste and explain E-waste management.	5	U	1
(b)	Write a note on collection of solid waste and precautions to be taken during collection of waste.	5	U	2
(c)	Write definition of regulatory instruments and explain its rules and regulations	5	R	3
(a)	Write a note on the need for policy instruments.	5	R	3
(b)	Define chemical waste and write a note on chemical waste management.	5	U	1
(c)	Explain the process of organic waste to energy generation.	5	U	4
5	(a) Write a note on monitoring and inspection mechanisms of waste management policies.	5	R	3
(b)	Write down the importance of organic waste management.	5	U	4
(c)	Explain in detail Vermicomposting.	5	U	4
6	(a) Write a note on Recycling.	5	U	1
(b)	Explain integration of waste management policies of India with international goals.	5	R	3
(c)	Explain environmental and energy benefits of anaerobic digestion method and biomethanation.	5	U	4

