Env. Sc./BCA (Sem-IV) — SEC – 2 (SWM)

## 2021

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Parts as directed.

## Part – A (Objective Type Questions)

- Choose the correct answer in each of the following / fill in the blanks: 1×10 = 10
  - (a) Industrial waste may contain toxic
    - (i) Chemicals
    - (ii) Phenols
    - (iii) Acids
    - (iv) All of these

(iii) Cowdung  (iii) Nuclear waste  (iv) Plastic  (c) Major gases produced from a land fill are:  (i) CO <sub>2</sub> + CH <sub>4</sub> (ii) NH <sub>3</sub> + H <sub>2</sub> (iii) CO + N (iv) H <sub>2</sub> S + O <sub>2</sub>	digestion is Modes and disease.  (j) If per capita per day solid waste produced in Patna is 500g and population of Patna is 25 lakhs, municipal solid waste(MSW) produced per day istons.
(d) In disposal of refuse complete destruction of pathogens is by:  (i) Land fill (ii) Pulverization  (iii) Incineration (iv) Composting  (e) In India as CPCB, average per capita solid waste is about:  (i) 0.1 kg per day (ii) 0.5 kg per day  (iii) 0.3 kg per day (iv) 1.5 kg per day  (f) Solid waste is decomposed by Anarobic management of the plants.	<ul> <li>(Short-answer Type Questions)</li> <li>2. Answer any four questions of the following:</li></ul>
WR - 16/2 (2) Contd.	WR – 16/2 (3) (Turn over)

(h) The process of decomposing of biodegradable solid waste by earthworm is

(i) Most important product of anaerobic

called Vermicomposting

(b) Which of the following is biodegradable

waste?

(i) Lead and Mercury

- (e) Explain 4-Rs of solid waste management.
- (f) Differentiate between hazardous and nonhazardous waste.

## Part - C

## (Long-answer Type Questions)

Answer any four questions of the following:

 $10 \times 4 = 40$ 

- Write in details about common methods of waste disposal.
- 4. What is vermi-composting ? How it is accomplished?
- What are different types of wastes? Describe each of these.
- Describe the role of rag-pickers in solid waste management.
- 7. Is producing energy from waste a viable solution? Discuss.
- Describe the main features of hospital waste management.

\*\*