

G.R. No.

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DECEMBER 2021 - ENDSEM EXAM
T. Y. B. TECH. (Civil) (SEMESTER - I)
COURSE NAME: Solid Waste Management (Professional
Elective I) COURSE CODE:CVUA31183B
(PATTERN 2018)

Time: [1 Hour]

[Max. Marks: 30]

(*) Instructions to candidates:

- 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Q.1) a) Apply concept of material recovery and recycle in solid waste [4]
b) A solid waste having mass 200 kg with density 50 kg/m³ and compaction ratio is 2. Capacity of vehicle to carry the solid waste is 1 m³. Determine how many number of vehicle to be required. [6]

OR

Q.2) a) Apply 3 R principle in solid waste management [4]
b) Elaborate the pyrolysis and incineration process in details. [6]

Q.3) a) In hospital what protocol is followed during collection of bio medical waste. [4]
b) Summarize the content of bio medical waste rule. [6]

OR

Q.4) a) Identify what are the factor affecting collection of biomedical waste. [4]
b) Elaborate in detail about treatment of biomedical waste. [6]

Q.5) a) Illustrate hazardous waste with characteristics. [4]
b) Summarize the various method to treat the hazardous waste. [6]

OR

Q.6) a) Justify the deep well injection system for disposal of hazardous waste is suitable or not. [4]
b) Summarize the content of hazardous waste rule 2016. [6]