

Total No. of Questions : 4]

SEAT No. :

PA-10039

[Total No. of Pages : 1

[6009]-321

T.E. (Civil) (Insem)

SOLID WASTE MANAGEMENT

(2019 Pattern) (Semester - II) (Elective - II) (301015F)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Attempt Q.1 or Q.2 and Q.3 or Q.4.
- 2) Figures to the right indicate full marks.
- 3) Draw neat figures wherever necessary.
- 4) Assume necessary data.
- 5) Use of scientific calculator is allowed.

- Q1)** a) Define solid waste and explain functional elements of SWM. [5]
b) Explain proximate and ultimate analysis. [5]
c) What are the factors affecting generation rate of solid waste? [5]

OR

- Q2)** a) What is the functional outline of SWM? [5]
b) Explain role of urban local bodies in solid waste management. [5]
c) Write short note on : Sustainable solid waste management for smart cities. [5]

- Q3)** a) List out the factors to be considered while deciding collection efficiency in a SWM system. [5]
b) What are the different factors that must be considered in the design of transfer station? [5]
c) How to do optimization of route during transportation of Solid Waste? [5]

OR

- Q4)** a) List out the factors to be considered in selecting solid waste collection equipment? [5]
b) What is the necessary of transfer station? [5]
c) What is role of Swachhta & rural engagement cell (SESREC)? [5]

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