

**M. SC. (ENVIRONMENT SCIENCE AND TECHNOLOGY) SEM -
II (CBCS) (2013 COURSE) : SUMMER - 2018
SUBJECT: SOLID AND HAZARDOUS WASTE MANAGEMENT**

Day: **Monday**
Date: **23/04/2018**

S-2018-1103

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 60

N.B.:

- 1) Answer **ANY FIVE** questions.
- 2) Figures to right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.

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- Q.1** a) Discuss the physical characteristics of solid waste. (06)
b) Highlight the social aspects related to solid waste management. (06)
- Q.2** a) Discuss the recycling processes for cardboard, glass and batteries. (06)
b) What are the design considerations of a mechanical composting plant? (06)
- Q.3** a) What is field capacity? Explain its importance in solid waste management system. (06)
b) What are the factors to be considered in the design and construction of a landfill? (06)
- Q.4** a) Explain s/s method in detail, (06)
b) Describe the basic principles in integrated solid waste management. (06)
- Q.5** a) Describe the protocols for collection, storage and transport of hazardous waste. (06)
b) Discuss the pros and cons of incineration as a waste disposal method. (06)
- Q.6** Answer **ANY THREE** of the following (12)
- a) Source separation
 - b) Pyrolysis
 - c) Active control of landfill gas
 - d) Landfill liner

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