

19/12/2023
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Sr. No. 351509

December 2023

BA(JMC) Re-Appear 5th Semester
WASTE MANAGEMENT IN DAILY LIFE (OES-301A)

Time: 3 Hrs.

Max. Marks: 75

- Instructions:**
1. It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.
 2. Answer any four questions from Part -B in detail.
 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART -A

Q.1 Briefly answer the following questions:

- (a) Define waste. (1½)
- (b) What are the uses of different sample collection bins for waste management? (1½)
- (c) Enlist the challenges faced in waste processing. (1½)
- (d) What is 5R in waste management? (1½)
- (e) What preventive measures can be adopted to reduce adverse impacts of occupational diseases occurred during waste handling? (1½)
- (f) Define vermicomposting. (1½)
- (g) Enlist the advantages associated with the anaerobic digestion process. (1½)
- (h) What are the significances of engineered landfill sites towards waste management? (1½)
- (i) Enlist the steps to be followed for preparing compost of kitchen gardening. (1½)
- (j) What are refuged derived fuels (RDF)? (1½)

PART -B

- Q.2 What are the different sources of urban waste? Give a detailed account of composition and classification of waste collected in urban locality on different basis. (15)
- Q.3 (a) What is the importance of segregation of waste at the source, explain in reference to the waste generated from residential areas in urban locality? (7½)
- (b) What are the key elements associated with waste collection? Explain briefly its importance and strategies towards its improvement for effective waste management. (7½)
- Q.4 (a) How do waste storage and transportation methods contribute to the effectiveness of waste management, and what is the significance of waste processing methods in facilitating storage and transportation (7½)

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- (b) How can individuals and small communities contribute towards effective waste management? (7½)
- Q.5 (a) Define recycling. Give a detailed account of various steps of the recycling process in waste management. (10)
- (b) How 3R concept of waste management is beneficial for the society? (5)
- Q.6 (a) Give a brief account of significance of safe waste disposal methods, highlighting the consequences associated with open dumping and burning. (7½)
- (b) Elaborate the best practices for solid waste disposal, considering environmental and health perspectives. (7½)
- Q.7 (a) What do you mean by waste-to-energy conversion? Give a detailed account of environmental and economic significances of waste-to-energy conversion techniques? (7½)
- (b) What is vermicomposting. Give a brief account of its significances, process stages and factors affecting the process. (7½)
