



UNIVERSITY OF PETROLEUM & ENERGY STUDIES

DEHRADUN

End-semester Examination – May, 2017

Name of the Program: MBA (Urban Infrastructure and Development)

Semester – II

Subject Name : Non-conventional Methods of Infrastructure Creation

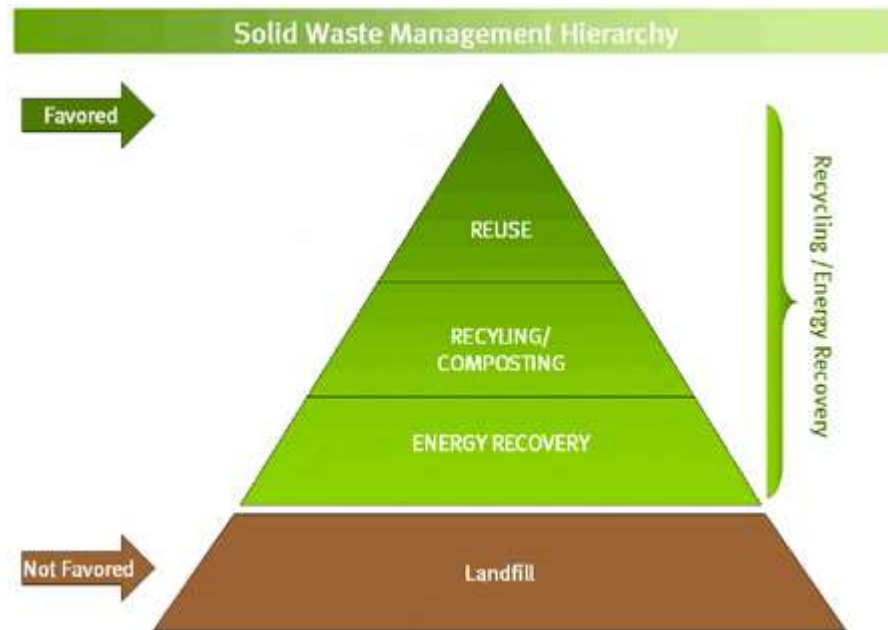
Max. Marks: 100

Subject Code : MDSI 842

Duration : 3 Hrs

Answer all questions. Marks are indicated against each question.

1. Discuss three infrastructural challenges faced by people residing in urban areas of India. (10 marks)
2. Briefly explain the concept of smart cities. (10 marks)
3. Weak rural infrastructure is one of the main reasons for large scale migration of rural population to urban areas. Justify (10 marks)
4. Discuss the innovative measures that were adopted by Grameen Shakti during the implementation of solar lighting programme in Bangladesh that made the programme so successful. (10 marks)
5. Microcredit schemes and IT enabled services are very powerful tools that can change the scenario for better in rural areas of India. Illustrate with the help of examples. (10 marks)
6. Discuss the lessons that India can learn from Sweden's experiments in energy sector with respect to the following Waste Management Framework Directive. Use suitable examples for reuse, recycling, energy recovery, etc. to reinforce your argument. (10 marks)



7. ENERGY4ALL, United Kingdom has demonstrated that cooperatives or local bodies (municipal bodies or panchayats) can create state of art infrastructure related assets with sustainable business models. Considering yourself as a head of local body, discuss a sustainable business model for infrastructure creation that applies to your local area. (10 marks)
 8. Taking lessons from Sweden’s experiment with biogas fueled vehicles, discuss the incentives to vehicle users that can be used by government bodies to promote its usage. (10 marks)
 9. Discuss the challenges associated with rural electrification in India. Also suggest suitable remedial measures to overcome these challenges. (10 marks)
 10. Assuming yourself as a smart city planner, suggest a blueprint to improve urban transportation in India. (10 marks)
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