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Code No: 138CF

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, December - 2020

GEOENVIRONMENTAL ENGINEERING

(Civil Engineering)

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Time: 2 hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

1. What are the sources of contaminations? Discuss any two of them. [15]
2. What is the need of characterization of contaminated site? Discuss in detail. [15]
3. List the various types of waste. Discuss the sources of biomedical waste and write how biomedical waste is recycled. [15]
4. What are the sources of solid waste? Discuss in detail how solid waste is managed. [15]
5. What is sorption isotherm? Explain Langmuir sorption isotherm and its limitations. [15]
6. Discuss the principles of bioremediation and phytoremediation techniques and write their relative merits and limitations. [15]
7. Explain with suitable illustrations the analysis of soil-water characteristic curves and their significance for the flow and transport of pollutants in the vadose zone. [15]
8. What is the importance of landfills? Discuss the considerations in the site selection for landfills. [15]

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