Dr. Hemant Sood

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -2 EXAMINATIONS-2022
B.Tech-4 Semester (Civil)

COURSE CODE: Sustainable Technologies and waste management   MAX. MARKS: 25

COURSE NAME: 19B1WBT731

COURSE CREDITS:03   MAX. TIME: 1Hr 30 min

Note: Note: All questions are compulsory. Marks are indicated against each question in square brackets.

Q1. What are the different waste Hierarchy rules needed to follow towards the waste management? Discuss in detail about each waste hierarchy rule? CO2 (2.5+2.5M)

Q2. What are the advantages and disadvantages of e-waste recycling? Discuss in detail about the biotechnological approaches for e-waste management?(CO1 &2) (2.5 +2.5)

Q3. How would you like to use green composites for the development of sustainable structure? Which different factors should be considered for the production of more durable products?(CO3) (2.5+2.5)

Q4. What are the different manufacturing technologies used for the production of green composites? Explain any two processes for the same and which properties of the derived products will be evaluated for its commercialization? (CO3 &4) (2.5+2.5)

Q5. How do your engineering concerns make a difference in safe waste disposal? What are the advantages and disadvantages of using secure landfills for waste disposal? CO1 (1.5+1.5)

Q6 How municipal solid waste landfill is prepared? Draw a diagram and highlight the good properties of its sustainability.CO3(2)