

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: BTECH/BHMCT
BRANCH: All

SEMESTER : VII
SESSION : MO/2022

SUBJECT: CE430 ENVIRONMENTAL MANAGEMENT
TIME: 3:00 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Describe the biotic components of ecosystem. [2]
Q.1(b) What are the different types of ecological Pyramids? [3]
Q.1(c) Write short notes on any two biogeochemical cycles. [5]
- Q.2(a) What are the different sources of Water? [2]
Q.2(b) Describe the mechanism of Rain water Harvesting? [3]
Q.2(c) Justify the statement, " Soil Erosion results in the collapse of Ecosystem" [5]
- Q.3(a) Define the term Biomagnification [2]
Q.3(b) Explain the concepts of Algal bloom and Eutrophication. [3]
Q.3(c) Using suitable equations, explain why Taj Mahal is turning yellow? [5]
- Q.4(a) What is a joint board and its function [2]
Q.4(b) Elaborate the process of EIA [3]
Q.4(c) Describe and explain the different components of ISO 14000 series [5]
- Q.5(a) What are the categories of Solar Thermal Devices? [2]
Q.5(b) Compare the advantages and disadvantages of Coal, and Natural Gas. [3]
Q.5(c) Discuss the concepts, components of Biogas plant and Biomass briquetting [5]

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