

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

CLASS: BTECH/IMSC
BRANCH: BT/CHEMICAL/CIVIL/MECH/PROD/ALL

SEMESTER : II
SESSION : SP/2022

SUBJECT: CE101 ENVIRONMENTAL SCIENCE

TIME: 3 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. 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 different types of Ecological pyramids with suitable examples. CO-1, BL-2 [5]
Q.1(b) Discuss the fate of a toxicant released into the different spheres of the environment. CO-1, BL-2 [5]
- Q.2(a) Describe the variation in temperature, pressure, and gaseous composition of the atmosphere. CO-2, BL-2 [5]
Q.2(b) Discuss the working principle and functioning of Cyclone separator to tackle air pollution. CO-2, BL-2 [5]
- Q.3(a) With the help of a neat sketch explain the process of municipal wastewater treatment. CO-3, BL-2 [5]
Q.3(b) Summarize the Physico-chemical and biological characteristics of water that is routinely included in water quality monitoring programs? CO-3, BL-2 [5]
- Q.4(a) Discuss the sources and ecological and health effects of soil pollution. CO-4, BL-2 [5]
Q.4(b) Discuss different collection and storage systems followed in municipal solid waste management. CO-4, BL-2 [5]
- Q.5(a) Discuss the radioactive pollution management techniques used in India. CO-5, BL-2 [5]
Q.5(b) Interpret the impacts of noise pollution. CO-5, BL-2 [5]

:::::21/07/2022:::::