

NITDGP/BTECH/Reg/Even/2021-22

**NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR**  
**Even Semester Mid-term Examination, 2021-22**

**Course Code:** ESC01

**Course Name:** ENVIRONMENTAL SCIENCE

Full Marks: 25

Time: 90 Minutes

Question Paper No.: NITDGP/EVS01/22

Date of Exam: 31/05/2022

Instructions: Answer all the questions.

Question No.	Body of the Question	Marks	Mapped CO
1	What is the 'Greenhouse effect'? Write the name of the greenhouse gases and also discuss their contribution to the Greenhouse effect.	5	CO2
2	What is 'Insolation'? State the average distribution of 'Insolation'.	4	CO2
3	Describe the role of 'ocean water'.	3	CO3
4	Define "Aurora borealis" and "Aurora australis".	3	CO2
5	Name the type of rock that "crystallizes from lava/magma and shows fine grained texture". Justify your answer with proper reason (use suitable diagram wherever required).	0.5+2	CO1
6	Define the word 'mineral', use suitable example. Name the major elements (in ascending order) that comprises the bulk crust.	1+1	CO1
7	With suitable diagrams, describe the internal structure of the earth.	2.5	CO1
8	Name the rock types that are considered to be secondary in origin. Justify why these rocks are considered to be secondary in origin (describe each rock type separately).	1+2	CO1

**Course Outcomes**

CO1: Understand the importance of environment and ecosystem.

CO2: Understand the fundamental aspect of pollutant tracking and its implementation in natural and anthropogenic pollution of air and water system

CO3: Understand the scientific basis of local and as well as global issues.