



‘समानो मन्त्रः समितिः समानी’

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 6th Semester Examination, 2022

**DSE-P4-CHEMISTRY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
All symbols are of usual significance.*

**Answer any four questions from the following**

10×4 = 40

1. (a) “Carbon dioxide, a non-pollutant, is perhaps the single most important environmental questions facing us at present”. Discuss in terms of the greenhouse effect. 3
- (b) What is photochemical smog? 3
- (c) Name some particulate air pollutants. 2
- (d) What is the basic ozone photochemistry? 2
  
2. (a) What are phytoplanktons? 2
- (b) Bring out the biotic components in the pond. 3
- (c) Discuss briefly the bio-geochemical cycles of N<sub>2</sub>. 5
  
3. (a) What are the causes of water pollution? 2
- (b) What is BOD? How BOD is measured? 2+3
- (c) How water is disinfected? 3
  
4. (a) Distinguish between mineral and ore. 2
- (b) What is Kroll process? 2
- (c) What is meant by smelting? 2
- (d) Write down the alloys of copper. 2
- (e) What are the different forms of Cast Iron? 2
  
5. (a) What is ‘green power’? 2
- (b) What are the different ways of exploiting ocean as blue energy source? 4
- (c) What are the different types of coal? 2
- (d) Which enzyme is mainly used in industries? 1
- (e) What is the composition of reformat gas? 1

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