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SHAHEED BHA	GAT SINGH STATE TECHNICAL	CAMPUS.	FEROZEPUR
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ROLL No.:

Total number of pages:[1]

Total number of questions:08

M.Tech|| Environment Science || 1st Sem

**Remedial Course** 

Subject Code: ES-501

Paper ID:

(for office use)

Batch: 2004 onwards

Time allowed: 3 Hrs

Max Marks:100

- Attempt any five questions
- · All questions carry equal marks
- Q. 1. (a) What is meant by electromagnetic radiations? Discuss its characteristics. (b) Explain the characteristics and applications of X-Rays.
- Q. 2. (a) What do you mean by adsorption process? How will you differentiate between physical adsorption and chemical adsorption?
  (b) What is buffer solution? Discuss various types of buffer solutions.
- Q. 3. (a) Discuss biochemical and biological reactions of water.

(b)Differentiate between genus and species.

- Q. 4. (a) What is cell-mitosis? Discuss various phases of cell-mitosis.
  (b) How wind energy can be produced? Give various applications of wind energy as a renewable source.
- Q. 5. Discuss the various phases of photosynthesis and factors which affect rate of photosynthesis.
- Q. 6. (a) Discuss the causes which are responsible for earth quake.
  - (b) What are true solutions? Discuss the concept of normality and molarity of the solutions.
- Q.7. (a) What do you mean by pH value of a solution? Discuss the role of pH value in our body fluids.
  - (b) How sonar can be helpful to find the depth of a sea?
- Q. 8. Draw and explain citric acid cycle.