

Roll No: 

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**BTECH**  
**(SEM VII) THEORY EXAMINATION 2023-24**  
**SOIL & WATER CONSERVATION ENGINEERING**

**TIME: 3 HRS****M.MARKS: 100**

**Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief.**

**2 x 10 = 20**

Q no.	Question
a.	Name some methods of reducing the impact of flooding.
b.	Define vegetation management in brief.
c.	Name the types of soil erosion due to water.
d.	Give the universal soil loss equation.
e.	Discuss the effects of erosion.
f.	Name the biological methods of soil erosion control.
g.	Define evaporation losses in brief.
h.	Define aquifer with example.
i.	Name some fertilizers and pesticides.
j.	Define soil loss estimation in brief.

**SECTION B**

**2. Attempt any three of the following:**

**10 x 3 = 30**

a.	Discuss the methods of soil erosion control in detail.
b.	What are the sources of agricultural water pollution? Explain in detail.
c.	Discuss the need of planned utilization of water resources in detail.
d.	Discuss the mechanism of soil erosion in detail with the help of diagram.
e.	What do you understand by groundwater recharge through wells? Explain in detail.

**SECTION C**

**3. Attempt any one part of the following:**

**10 x 1 = 10**

a.	What do you understand by hydrologic cycle? Explain in detail with the help of diagram.
b.	Discuss the soil erosion due to wind and its control in detail.

**4. Attempt any one part of the following:**

**10 x 1 = 10**

a.	Discuss some of the river training works in detail.
b.	Define sediment deposition in rivers in detail.

**5. Attempt any one part of the following:**

**10 x 1 = 10**

a.	What do you understand by soil erosion? Discuss its causes and types.
b.	Define grass land management in detail with the help of suitable diagram.

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**6. Attempt any one part of the following:  $10 \times 1 = 10$**

a.	Define soil loss estimation in detail. Also give universal soil loss equation and modified universal soil loss equation.
b.	What do you understand by gullies? Give its classification and stages of development.

**7. Attempt any one part of the following:  $10 \times 1 = 10$**

a.	What do you understand by wind erosion? What are the factors affecting wind erosion.
b.	What do you understand by land capability classification? Explain in detail.

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