SP-146

Seat No.	

Total No. of Pages : 2

B.Tech (Civil Engineering) (CBCS) (Part-III) (Semester - VI) Examination, November - 2023

SOIL & WATER CONSERVATION TECHNIQUES

(Open Elective-2)

Sub. Code : 81519

Day and Date : Saturday, 25 - 11 - 2023 **Total Marks : 70**

Time : 2.30 p.m. to 5.00 p.m.

Instructions :
1) **All questions are compulsory.**
2) **Figures to the right indicate full marks.**
3) **Assume suitable data if necessary and state them clearly.**
4) **Answer shall be supported by adequate sketches**

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SECTION - I

Q1) Attempt all questions.

a) Elaborate principles of soil erosion. **[5]**

b) What are the types of soil erosion? Explain anyone. **[6]**

Q2) Attempt any Two.

a) Explain in detail - Terraces for soil erosion control. **[6]**

b) Short note - Maintenance of bunding. **[6]**

c) Enlist classification of gullies and explain in details. **[6]**

Q3) Attempt any Two

a) Enlist the methods of river training work and explain in details. **[6]**

b) Write note on mass failure. **[6]**

c) Explain causes of stream bank erosion. **[6]**

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SECTION - II

Q4) Attempt all questions.

a) Explain the importance of water harvesting. **[5]**

b) Explain water harvesting techniques in urban areas. **[6]**

Q5) Attempt any Two.

a) Explain benefits of watershed modeling. **[6]**

b) Differentiate between physically based models and empirical models. **[6]**

c) Classify watershed models based on nature of the algorithms. **[6]**

Q6) Attempt any Two.

a) Explain ground water conservation techniques. **[6]**

b) Explain zones of ground water. **[6]**

c) Define and Explain - Porosity and Permeability. **[6]**

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