



DEPARTMENT OF CIVIL ENGINEERING

FINAL TERM EXAMINATION

Subject: Irrigation Engineering
Instructor: Engr Jebran Khan
Course code: CE-422

Duration: 4 hrs.
Total Marks: 50

Note: Attempt all questions. Manage your time properly. Understanding question paper is the part of examination. Draw diagrams wherever necessary. Please refer to your notes for assistance copy from internet will marked less.

No. (01) (4+6)

- a) Define water logging. What are the causes of water logging?
- b) What is efflorescence? Define leaching process.

No. (02) (5+5)

- a) Explain the procedure of designing irrigation canals by Kennedy's theory.
- b) Differentiate between initial regime and final regime according to Lacey's theory.

No. (03) (4+6)

- a) Differentiate between storage headworks and diversion headworks.
- b) What are the objectives of diversion headworks. Briefly describe the points necessary for site selection of diversion headwork.

No. (04) (3+7)

Write notes on the following:

- a) Canal head regulator
 - b) Silt excluders
 - c) Under sluices
 - d) Balancing depth
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THE END
