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Total No. of Questions: 18

B.Tech. (Agriculture Engineering) (Sem.-3)

IRRIGATION ENGINEERING Subject Code: BTAG-305-19

M.Code: 78591

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly:

- Write a short note on the main sources of the irrigation:
- Explain evaporation.
- 3) What is the design criteria of an irrigation system?
- 4) Which river basin has the highest total replenishable ground water resource?
- Define irrigation scheduling.
- 6) What are the effective approaches or methods for addressing and/or reducing seepage and conveyance losses from open ditches?
- 7) What are different types of irrigation systems?
- 8) How is planning important to irrigation system and what are the design consideration in the irrigation system?
- 9) What do you understand by main intake structure and pumping station in an irrigation system?
- 10) What are the design principles in the design of water conveyance system?

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SECTION-B

- Write a note on the purpose, requirements, layout of irrigation water distribution system.
- What is the general water balance equation? Explain the concept.
- 13) Write a note on water resources development in India through inter-linking of rivers.
- Write a note on the past, current and future state of canal irrigation in India.
- Write a note on the components of water balances.

SECTION-C

- a) Write a note on the history and development of irrigation in India.
 - b) What are the instruments to measure irrigation water? Explain.
- 17) a) What are the different formulations for levying irrigation charges?
 - Explain and distinguish between the surface and ground water resources.
- 18) a) Write a note on the water resource development in India.
 - b) What are the principle factors that influence water conveyance efficiency? Elaborate them in your own words.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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