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Register No.:	

April 2018

<u>Time - Three hours</u> (Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART A and Q.No. 16 in PART B are compulsory.

 Answer any FOUR questions from the remaining in each PART A and PART B
 - (2) Answer division (a) or division (b) of each question in PART C.
 - (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C. J

PART - A

- 1. What are the various forms of precipitation?
- 2. List out the uses of unit hydrograph.
- 3. Write Darcy's law.
- 4. Define the term salt balance.
- 5. Define pitching of banks.
- 6. What is canal irrigation system?
- 7. State the causes of soil erosion.
- 8. List out the functions of spillway.

PART - B

- 9. Explain about the various losses of run off.
- 10. Describe artesian aquifer with a sketch.
- 11. Write a note on basin management by conjunctive use.
- 12. Write a note on interlinking of rivers.
- 13. Describe about the weir with a sketch.
- 14. Briefly explain about Syphon aqueduct.
- 15. Define soil erosion. List out the various remedial measures available to control it.
- 16. Define water logging. List out the various effects of water logging.

[Turn over....

PART - C

17. (a) Explain the various components of a hydrological cycle with a neat sketch.

(Or)

- (b) Explain Symon's rain gauge and floating type rain gauge with neat sketch.
- 18. (a) Explain in detail about the various measurement of yield of well.

(Or)

- (b) Explain in detail about the various methods of artificial recharge of ground water.
- 19. (a) (i) Explain solid gravity dam with neat sketch.
 - (ii) Explain shaft spillway with neat sketch.

(Or

- (b) Explain about the various causes of failure of earth dams with neat sketch and with suitable remedial measures.
- 20. (a) Explain the components of diversion head works with sketch.

(Or)

- (b) (i) What are the objects and advantages of canal lining.
 - (ii) Write a note on cropping pattern and irrigation scheduling.
- 21. (a) Explain in detail about the seepage control with neat sketch.

(Or)

- (b) (i) Explain about the land drainage.
 - (ii) Explain about the land reclamation.