



12. (a) Explain about the well and tank irrigations and its advantages.

Or

(b) Describe the following

(i) Micro irrigation (6)

(ii) Surface and sub surface irrigation (7)

13. (a) Describe in detail about the difference between the earthen dam and arch dam with a neat sketch.

Or

(b) Discuss in detail about the diversion head works and its functions.

14. (a) Elaborate in detail about the canal regulator and its function with the neat sketch.

Or

(b) Discuss about the design of an unlined canal and its characteristics.

15. (a) Explain in detail about the Participatory Irrigation Management (PIM).

Or

(b) Elaborate in detail about the difference between optimization of water use and minimizing water losses.

PART C — (1 × 15 = 15 marks)

16. (a) Explain with the neat sketch about the different irrigation methods.

Or

(b) Discuss about the following :

(i) Derive the relationship between the duty, delta and base period. (8)

(ii) Consumptive use of crops. (7)