

	(c)	Enlist the various method of irrigation.	02
Q-3		Attempt all questions	(14)
	(a)	Explain the soil-water relationship with neat sketch.	08
	(b)	Derive the relationship between Delta, Duty and Base period.	06
Q-4		Attempt all questions	(14)
	(a)	An irrigation canal has gross commanded area of 65000 hectares out of which 86% cultivable area. The intensity of irrigation for kharif season and rabi season are 70% and 35% respectively. Find the discharge required at the head of the canal if the duty at its head is 820 hectare/cumec for kharif season and 1900 hectare/ cumec for rabi season.	06
	(b)	Discuss briefly the planning process of irrigation project.	06
	(c)	Define Aquifer.	02
Q-5		Attempt all questions	(14)
	(a)	What are the factors that affect the alignment of a canal?	06
	(b)	What are the limitations of Kennedy's theory?	06
	(c)	What is meant by canal irrigation?	02
Q-6		Attempt all questions	(14)
	(a)	What are the advantages and disadvantages of lining of canal?	06
	(b)	Enumerate various types of lining. Explain any two method of lining	08
Q-7		Attempt all questions	(14)
	(a)	Explain the layout of tile drain with neat sketch.	07
	(b)	Explain the causes of water logging.	07
Q-8		Attempt all questions	(14)
	(a)	Explain river training work with neat sketch.	08
	(b)	Explain artificial cut-off with neat sketch.	06

