QP Code: 26228

	(3 Hours)	[Total marks: 80]
Note	•	
2)	Attempt any four questions out of six questions. Assume suitable data wherever necessary. Draw neat sketches wherever necessary.	
1.	Explain the following terms:	(20)
	Derive an expression for the yield of a well penetrating a confined aquit of A tube well having diameter of 15cm. fully penetrates confined aquit The discharge from the well at a drawdown of 8m is 80 lps. Determ permeability and the transmissibility of the aquifer. Take the radius of	fer of thickness 10m. ine the coefficient of
3. a) '	Write detailed note with sketch on movement of ground water.	(10)
b)]	How sea water intrusion is controlled? Explain briefly.	(10)
4. a) Explain various forms of underground sources of water.		(10)
	Write on ground water replenishment. Discuss methods of ground water neat sketches.	er replenishment with (10)
5. a) l	Explain different methods of determining yield of dug well. Explain an	y one method. (10)
	During a recuperation test the water in an open well was depressed by p it recuperated 1.8m in 80 minutes. Estimate the yield from a well of 2 depression head of 2m situated in the same area.	
6. Wr	rite short notes on:	(20)
i) Inte	erference among the wells	
ii) Nu	umerical models of Ground water flow	
iii) T	ypes of well screens	
iv) D	upit's theory and its limitations	