		of Questions : 8]  SEAT No.:
PB22	<i>ZZ</i> (	[6263] 57 [Total No. of Pages : 2
		B.E. (Civil Engineering)
I	NT	EGRATED WATER RESOURCES PLANNING AND
		MANAGEMENT
(	201	19 Pattern) (Semester - VII) (Elective - III) (401003 C)
·	•	
		Hours] [Max. Marks: 70
1nstruc 1)		ns to the candidates: Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
2)		Neat diagrams must be drawn wherever necessary.
3)		Figures to the right indicate full marks.
4)	) A	Assume suitable data if necessary.
<b>Q1</b> ) a	.)	Justify importance assessment of river water quality and write a brief
		note on prevention and control of surface water pollution. [10]
b	)	Explain polluters pay principle. [8]
	2	
		OR
<b>Q2</b> ) a	.)	What is Environmental Impact Assessment (EIA) and what are its
	,	objectives, state methodology to carryout EIA. [10]
b	)	State any four CPCB regulations regarding water pollution control. [8]
<b>Q3</b> ) a	.)	State and explain principles of planning and financing water of water
		resources projects. [10]
h	. )	Evplain how water it according good
b	<i>')</i>	Explain how water is economic good. [7]
		OR OR
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<b>Q4</b> ) a	.)	Explain framework for planning a sustainable water future. [10]
b	)	Explain in brief economics and decision making in TWRPM. [7]
	(	
1		
<b>Q</b> 5) a	.)	What are water crises, explain its global and national perspective. [10]
<i>'</i>	•	, 6°,
b	))	State and explain rural local governing body water laws. [8]

*P.T.O.* 

<i>Q6</i> )	a)	State and explain UN laws on non-navigable uses of international courses.	water [ <b>10</b> ]
	b)	State any four municipal corporation laws regarding water supply drainage.	y and [ <b>8</b> ]
<b>Q</b> 7)	a)	Explain in detail role of dam in flood control and power generatio its importance in IWRPM.	n and [ <b>10</b> ]
	b)	Explain importance of management of flood plains.  OR	[7]
<b>Q</b> 8)	a)	Explain in detail Use of QGIS in IWRPM.	[10]
	b)	Explain application of soft computing in flood control.	[7]
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[626	[3]-5	2	