Tota	l No	o. of Questions : 8] SEAT No. :				
P53	34	[Total No. of Pages : 2				
		[6004]-456				
B.E. (Civil)						
INTEGRATED WATER RESOURCES PLANNING AND						
MANAGEMENT						
(2019 Pattern) (Semester - VII) (Elective - III) (401003C)						
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		½ Hours] [Max. Marks : 70 ions to the candidates:				
	исн 1)	Attempt Q.No.1 or Q.No.2, Q.No.3 or Q.No.4, Q.No.5 or Q.No.6, Q.No.7 or Q.No.8.				
	<i>2</i>)	Neat diagrams must be drawn whenever necessary.				
	<i>3</i>)	Figures to the right indicate full marks.				
	<i>4)</i>	Assume suitable data, if necessary.				
<i>Q1)</i>	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]				
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Q2)	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]	7			
			V			
()2)	د.	State and evaluin min less of alamina and financina system of within				
<i>Q3</i>)	a)	State and explain principles of planning and financing water of water resources projects. [10]				
	1 \					
	b)	Explain how water is economic good. [7]				
		OR OR				
Q4)	a)	Explain framework for planning a sustainable water future. [10]				
	b)	Explain in brief economics and decision making in IWRPM. [7]				
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Q 5)	a)	What are water crises, explain its global and national perspective. [10]				
	b)	State and explain rural local governing body water laws. [8]				
		OR OR				
		9.4				
		P.T.O.				

Q6)	a)	State and explain UN laws on non-navigable uses of international v courses.	vater [10]
	b)	State any four municipal corporation laws regarding water supply drainage.	and [8]
Q7)	a)	Explain in detail role of dam in flood control and power generation its importance in IWRPM.	and [10]
	b)	Explain importance of management of flood plains. OR	[7]
Q8)	a)	Explain in detail Use of QGIS in IWRPM.	[10]
	b)	Explain application of soft computing in flood control.	[7]
		Explain application of soft computing in flood control.	
[600)4]-4	2	