Total No. of Questions : 4]		No. of Questions : 4] SEA	T No. :	
PB	24	48 [6270]-36	[Total	No. of Pages : 2
B.E. (Civil Engineering) (Insem) DAMS AND HYDRAULICS STRUCTURES				
(2019 Pattern) (Semester - VIII) (401011)				
Instr		Neat sketches/diagrams must be drawn wherever necessar Figures to the right indicate full marks for the sub-questi Assume suitable data if necessary and state them in your	y ions. answer c	
Q1)	a)	Explain the terms upstream side, downstream side, gallery of gravity dam.	tailwat	ter, spillway & [5]
	b)	State various objectives of dam safety and instrume	ntation.	[5]
	c)	ORO		
Q2)	a)	Explain with sketches the instrumentation required pressure in gravity dam.	l for mo	onitoring uplift
	b)	State the classification of arch dam and explain anyon	one.	\$ [5]
	c)	) Explain with sketch 'Piezometer'' used in gravity da	m safet	y [5]
Q3)	a)	) Explain in detail seismic forces acts on gravity dam	with pro	oper sketch.[5]
	b)	) State and explain various keys provided in gravity d	am.	[5]
	c)	OR OR		[5]

*P.T.O.* 

- Explain in details galleries in a gravity dam with respect to location and **Q4)** a) function.
  - Describe procedure for roller compacted concrete. [5] b)
  - As shown in fig.1 profile of gravity dam, check the safety of dam with c) respect to sliding where as

unit weight of construction material = 24 KN/m<sup>3</sup>

Coefficient of friction = 0.75[5]

