*KERALA AGRICULTURAL UNIVERSITY

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B.Tech (Agrl.Engg.) 2014 Admission VI Semester Final Examination-July-2017

			Marks: 50
			Time: 2 hours
I	1	Fill up the blanks	(10x1=10)
	1	The structures which are constructed to check the velocity of flowing wat	er
	~	in the gully are known as	
	2	The drop height of chute spillway should be to m	
	3	In straight drop structure the function of cut off wall is to	
	4	structure can also be used for water storage along with gully control.	
	5	The design of permanent gully control structure is done based on the retur period of	'n
	6	The formation of steady hydraulic jump occurs at the Frude number (F)	 .
	7	Farm pond is a structure used for	
	8	The capacity of a farm pond is computed by usingformula.	
	9	In earthen dam the function of core wall is to	
	10	The 'Kresnik formula' computes for the design of check dam	• •
II.		Write short notes on any FIVE	(5x2=10)
	1	Stabilization of gully	(042 10)
	2	Environment impact assessment	
	3	Brush wood check dam.	
	4	Gabion structures	
	5	Frude Number	
	6	Percolation ponds	
	7	Design criteria of a SAF stilling basin.	
	•	Besign enteria of a SAF stilling basin.	
III		Answer any FIVE	(5x4=20)
	1	Describe the different types of semi permanent check dam.	(314-20)
	2	List out permanent gully control structures and write their requirement.	
	3	Describe the design procedure for straight drop spill way.	
	4	Describe the design steps of drop inlet spillway.	
	5	Describe the procedure for farm pond construction.	
	6	What is hydraulic jump? Explain its application.	
	7	Triangular load diagram for various flow conditions.	
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IV		Write essay on any ONE	(1x10=10)
	1	Explain design steps of chute spillway.)
	2	Define earthern dam. What are the different types of small earth	
		embankments? Describe design principles of earth embankments.	

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