	Reg.	No. :										
	ſ	Question Pap	er (Code	: 54	A04						
	B.E.	/ B.Tech. DEGREE	EXA	AMIN	ATIO	DN, I	DEC	202	20			
				mester		,						
		Agricultu	ıre Eı	nginee	ring							
	15UAG404-	SOIL AND WATE	R CC) NSE	RVA	TION	N EI	NGIN	VEEI	RINO	5	
		(Regul	ation	n 2015)							
Dur	Duration: 1.15 hrs					Maximum: 30 Marks						
		PART A - ((6 x 1	l = 6 N	Aark	s)						
		(Answer any six of	the f	follow	ing o	quest	ions	s)				
1.	The sequence of water erosion is									CO1-		
	(a) Splash, sheet, rill	a) Splash, sheet, rill, gully			(b) Sheet, gully, rill							
	(c) Rill, Splash, sheet			(d) Gully erosion, Splash, sheet, rill								
2.	2. The particles detachment is more in											C01
	(a) Sandy soil	(b) Forest lands		(c) C	lay so	oil				(d) H	lill fa	ace
3.	Movement of excess as	s precipitation water	ovei	r the la	and s	surfac	e is	call	ed			CO2-
	(a) overland flow	(b) run-off	(c)	sheet	flow				(d) a	all th	e ab	ove
4.	A runoff plots consis	st of										CO2
	(a) Multi slot divisor	(b) Sediment sam	npler	(c) M	easur	ing	cylin	nder	(d) A	ll abov
5.	If the rain occurs aft hence it contribute le	• • •	hen _			is	mo	re,				CO3
	(a) Infiltration rate	(b) Evaporati	ion	(c) Ti	ansp	iratio	on		(d) l	Perco	olatio	on
6.	The H.D(horizontal distance) of bund depends on								CO3			
	(a) VI of bund	(b) Soil type		(c) La	and s	lope			(d) B	oth ((a) ai	nd (c)
7.	The height of contour bund generally ranges from 0.30 to CC								CO4			
	(a) 0.5 m (l	o) 1.0 m	((c) 1.5	m				(d) 2	.0 m		

8.	In cantilever type retaining wall the key can be fixed								
	(a) Near the toe (b) Middle of base	Near the toe (b) Middle of base (c) Near the heel							
9.	Which of the following is the source watershed?		CO5- R						
	(a) Soil erosion from forests	(b) Occurrence of flood							
	(c) Mining excavation	(d) All above							
10.	A low area where the land is saturated wit		CO5- R						
	(a) irrigated land (b) semi wet land	(c) wet land	(d) par wet land						
	PART - B (3 x 8 = 24 Marks)								
(Answer any three of the following questions)									
11.	What are different types of erosion? Expla	CO1- U	(8)						
12.	Explain about the land use capability class	CO2-U	(8)						
13.	Explain in detail about the Agronomical at measures of water erosion control.	CO3-U	(8)						
14.	What are the components, design p protection of Check dam and earthen dam	•	CO4- U	(8)					
15.	What are the sources of sediments? Explait present in the Reservoir sedimentation.	CO5- U	(8)						