A		Reg. No. :												
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	<b>Question Paper Code: U4A03</b>													
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024														
		Fo	urth	seme	ester									
Agricultural Engineering														
21UAG403-SOIL AND WATER CONSERVATION ENGINEERING														
(Regulations 2021)														
Dura	ation: Three hours								M	axim	um:	100	Mar	ks
		Answ	er Al	ll Qu	iestic	ons								
		PART A -	(10	x 1 =	= 10	Mar	ks)							
1.	is also known as inter cropping or co-cultivation.								CO	U –U				
	(a) Mulching			(1	5) M	ixed	crop	ping						
	(c) Terracing			(0	d) Cr	op r	otatio	on.						
2.	Waterway	Waterway is the best waterway.										CO	1 <b>-</b> U	
	(a)Natural	(b) Concrete		(0	(c)Erased					(d) None of the above				
3.	Gully erosion can be c	controlled by											CO	1 <b>-</b> U
	(a) Terracing	(b)Monocropin	ng	(0	c)Wa	11			(d)	Ηοι	ise			
4.	USLE computes												CO	1 <b>-</b> U
	(a) Sheet erosion	(b) Rill erosion	ı	(0	c) Gi	ılly	erosi	on	(d)	a &	b bo	th		
5.	The function of shoulder bund is to												CO	1 <b>-</b> U
	(a) Grassed water ways			(1	(b) Temporary gully control structures									
	(c) Terraces				d) Ga	abior	IS							
6.	The function of shoulder bund is to										CO	1 <b>-</b> U		
	(a) Medium deep soil			(1	(b) Sandy loam soil									
	(c) Black cotton soil			(0	(d) Alluvial deep soil									
7.	The 'half-moon' structure is used for												CO	1 <b>-</b> U
	(a) Sheet water harves	ting		(1	(b) Runoff harvesting									
	(c) Spring water harvesting				(d) Water spreading									

8.	Area	Area contributing surface runoff to a single outlet is called						CO1 -U			
	(a) Command area			(b	) Water s	pread area					
	(c) V	Watershed are	ea	(d	) Catchm	ent area					
9.	Floc whic	oding and Lea ch soil	aching in Practiced a	as a Recl	amation	method i	in	(	CO1 –U		
	(a) A	Acidic	(b) Saline	(c)	) Alkalin	e	(	d) All the abo	ove		
10.	In re	eservoir the st	torage capacity given	for sedim	entation	is called		(	CO1 -U		
	(a) I	Dead storage	(b) Spillway crest lo	evel (c)	) Live sto	orage	(	d) Attention	storage		
			PART – I	B (5 x 2=	10Marks	)					
11.	Defi	ine strip crop	ping?					(	CO1 -U		
12.	Тур	es of soil eros	sion?					(	CO1 -U		
13.	Defi	Define Contour Cropping? CO1 -U									
14.	Design principle of Earthen dam? CO1 -U								CO1 -U		
15.	5. List the factors Affecting Sedimentation of Water Resources?							CO1 -U			
			PART	– C (5 x 1	6= 80Ma	urks)					
16.	(a)	Explain agro	onomic and mechanic	cal or engi )r	neering 1	neasures		CO1- U	(16)		
	(b)	Elaborate th	e factors influencing	water eros	sion.			CO1- U	(16)		
17.	(a)	Enlist and conservation	explain various t n practice	ypes of	bunds	used in	soil	CO1- U	(16)		
	(b)	Briefly expl	ain universal soil loss	s equation	and limi	tations?		CO1- U	(16)		
18.	(a)	Explain in d	etail about conservat	ion tillage )r	and its t	ypes		CO1- U	(16)		
	(b)	Describe the	e construction and ma	inagement	of terrac	e system		CO1- U	(16)		
19.	(a)	Briefly expl	ain about Types of W C	/ater Harv )r	esting?			CO2- App	(16)		
	(b)	Detail in situ	u moisture conservati	on technic	ques.			CO2- App	(16)		

20.	(a)	Briefly explain methods Reservoir Sedimentation Control?	CO2- App	(16)
		Or		
	(b)	Explain pre and post sedimentation control methods	CO2- App	(16)

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