		Reg. No.	:									
	Question Paper Code: 59A04											
B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021												
Elective												
Agriculture Engineering												
15UAG904- Watershed Managenent												
(Regulation 2015)												
Duration: Three hours Maximum								: 10	0 Ma	ırks		
PART A - $(10 \text{ x } 1 = 10 \text{ Marks})$												
1.	Smallest finger strip tributaries in drainage basin are marked as CO								1 - R			
	(a) order first	a) order first (b) Order second (c) order third				((d) order fourth					
2.	Dimension of relief is										CO	1 - U
	(a) L-1	(b) L	(c)	L-2			(d) L	-2			
3.	A typical infrastructure of the	typical gives an approximate idea about some existing afrastructure of the village									CO	2- R
	(a) Survey	(b) watershed	(c)	Venn			(d) B	oth a	n & t)	
4.	Check dam can be	bestructure						CO2- R				
	(a) Temporary	(b) Permanent (c) Spillway				((d) Both a & b					
5.	Which is 'delayed flow'										CO	3- R
	(a) direct runoff	(b) base flow (c) interflow				((d) none of the above					
6.	Gully erosion is th	y erosion is the advance stage of						CO3- R				
	(a) splash	(b) sheet	(c)	rill				(d) r	none	of th	ne ab	ove
7.	The drainage divide	de may be the								CO	4- R	
	(a) valley	(b) ridge (c) forest land					d (d) both a and b					
8.	Design of farm pond is done for the return period of									CO	4- R	
	(a) 15 –years	(b) 10 –years	(c) 25	-years			(d) 5	-yea	ars		
9.	The watershed is sy	l is synonymous to						CO5- R				
	(a) drainage basin	sin (b) drainage area (c) catchment						(d) all the above				

10.	The un channeled overland flow is called as							CO5- R			
	(a) s	heet flow	(b) areal flow		(c) runoff	(d) all above				
	PART - B (5 x 2= 10 Marks)										
11.	Exp	lain the land capa	bility sub-class	es?				CO1 U			
12.	Explain financial benefits of watershed planning?										
13.	Explain classification of watershed?							CO3 U			
14.	What is watershed development?							CO4 R			
15.	Explain DPAP?						CO5 A				
			PART – C (5 2	x 16 = 801	Marks)						
16.	(a)	Explain in detai	l about Land Ca	apability o Or	classification	n (LCC)?	CO1-U	(16)			
	(b)	Explain in deta illustrations?	il about water	shed wit	h suitable (examples and	CO1-U	(16)			
17.	(a)	(a) In detail explain about the process of watershed planning of implementation agency, monitoring and evaluation system?					CO2- U	(16)			
	(b)	Derive the the concept with su	eory of Partic itable examples	eipatory ?	Watershed	Management	CO2- Ana	(16)			
18.	(a)	a) How will you design water conservation lands? Give suitable illustrations			ion practice	es in irrigated	CO3- Ana	(16)			
	(b)	In detail expla (TGCS) with ne	in about the te at sketches?	emporary	gully cont	rol structures	CO3- U	(16)			
19.	(a)	Briefly explain illustrations	about soil cons	Servation Or	practices?	Give suitable	CO4- Ana	(16)			
	(b)	In detail explain	about design a	nd compo	onents of Fa	rm pond?	CO4- Ana	(16)			
20.	(a)	Briefly explain flowchart?	n about Wate	rshed m	odeling? (Give suitable	CO5- Ana	(16)			
	(b)	In detail explain	about river val	Or ley proje	ct?		CO5- U	(16)			