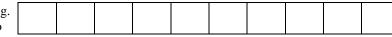
Reg. No





QP Code: RD21BTECH335

GIET UNIVERSITY, GUNUPUR - 765022

B. Tech (Fifth Semester Regular) Examinations, December - 2023 21BAGES25006 - Watershed Planning and Management (AGE)

Time: 3 hrs Maximum: 70 Marks

_	(The figures in the right hand margin indicate marks)		O IVICIT	<u> </u>	
	PART – A		$(2 \times 5 = 10 \text{ Marks})$			
Q	.1. Answer <i>ALL</i> questions		(Blooms Level	
a	effecting watershed management.	erent fa	Ctor	CO1	K2	
b	. Explain about the roof top harvesting for rain water conservation.		(CO1	K2	
c	. Explain about land management and cultural practices on watershed hydrology	y.	(CO1	K3	
d	. What are the different investigation done before watershed development plan?		(CO2	K1	
e	. Define hydrologic data for watershed planning.		(CO1	K2	
$PART - B ag{15 x 4 = 60 Marks}$						
Answ	er ALL questions	Marks	CO#	Blooms		
2. a.	Explain about the survey and preparation for watershed development.	7	CO2	K2		
b.	Explain the difference between intensive and extensive cropping system? (OR)	8	CO1	K2		
c.	Explain about the rain water harvesting system?	7	CO1	K2		
d.	Explain about dry farming techniques?	8	CO1	K2		
3.a.	Define the study of functional requirement of watershed development structures.	7	CO2	K2		
b.	What is watershed based land use planning?	8	CO2	K2		
	(OR)					
c.	Define hydrological modeling	8	CO1	K2		
d.	Define rainwater conservation technologies - in-situ and storage?	7	CO1	K2		
4.a.	Define water budgeting in a watershed?	8	CO1	K2		
b.	Explain the interlinking system. (OR)	7	CO2	K2		
c.	What are the different techniques used in dry farming?	7	CO3	K2		
d.	What is multiple cropping system?	8	CO1	K2		
5.a.	Explain about the cost benefit analysis of rain water harvesting?	7	CO3	K2		
b.	What is agroecology?	8	CO1	K2		
	(OR)					
c.	Explain water budgeting in rain water harvesting	8	CO1	K2		
d.	What are the different planning and formulation for watershed management?	7	CO1	K2		

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