



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)

PART - A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Define the objective of watershed management. Explain about the different factor effecting watershed management.	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.	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

(15 x 4 = 60 Marks)

Answer **ALL** questions

	Marks	CO #	Blooms Level
2. a. Explain about the survey and preparation for watershed development.	7	CO2	K2
b. Explain the difference between intensive and extensive cropping system?	8	CO1	K2
(OR)			
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.	7	CO2	K2
(OR)			
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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