

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E./B.Tech DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2026***Fourth Semester**Agricultural Engineering***UAIT24402 – SOIL AND WATER CONSERVATION ENGINEERING***Regulations - 2024***Duration : 3 Hrs****Maximum : 100 Marks****PART – A(ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BLT	CO	Marks
1.	How will you classify soil erosion?	K2	1	2
2.	What is drop spillway and chute spillway?	K1	1	2
3.	Summarize the importance of SCS-CN Method.	K2	2	2
4.	Distinguish between peak runoff and design peak runoff.	K2	2	2
5.	Define the term strip cropping.	K1	3	2
6.	Classify terraces.	K2	3	2
7.	Classify the type of drains.	K2	4	2
8.	What is the purpose of providing of check dam?	K1	4	2
9.	Define boundary layer.	K1	5	2
10.	List out the steps involved in detention tank design.	K1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11.	a i Elaborate design procedure of PGCS.	K2	1	8
	ii Explain the problems arising due to soil erosion.	K2	1	8
Or				
	b i Enumerate the different forms of water erosion and explain any one in detail.	K2	1	8
	ii Explain the drop inlet spillway components.	K2	1	8
12.	a i How will you determine curve number based on SCS method with neat sketch	K3	2	8
	ii How will you estimate soil loss explain in detail?	K3	2	8
Or				
	b i Discuss in detail about the rainfall intensity influences curve number.	K3	2	8
	ii How will you identify different land use capability in field and discuss in detail?	K3	2	8
13.	a i Explain the benefits and limitations of tillage practices.	K2	3	8
	ii Illustrate types of tillage and its suitability.	K2	3	8
Or				
	b i How will you assess the area lost due to terracing?	K2	3	8
	ii List out steps involved in maintenance of maintenance of grassed waterway.	K2	3	8

14.	a	i	Describe different types of water harvesting.	K2	4	8
		ii	Detail different types of farm pond.	K2	4	8
Or						
	b	i	Demonstrate various types of retaining wall and explain any one in detail.	K2	4	8
		ii	Compare and contrast earthen and check dams.	K2	4	8
15.	a	i	Distinguish between wash load and bed load.	K2	5	8
		ii	Explain the step by step procedure for measurement of bed load.	K2	5	8
Or						
	b	i	Differentiate suspended and dissolved load.	K2	5	8
		ii	Write short notes on any five losses due to sedimentation.	K2	5	8
