## Raja N. L. Khan Women's College (Autonomous)

## PG 1<sup>st</sup> Semester End Examination, 2022

Semester: I

## Post Graduate Dept. of Geography

Paper:106

## **Unit-11: Hydrological Techniques (Practical)**

(Use separate answer scripts for separate unit)

- Calculate rainfall depth in cm for the given basin (MAP 1) based on the rainfall recorded in different climatic stations using isohyetal method.
- The landuse distribution under different Hydrological Soil Groups alongwith their corresponding CN values in a River basin are given in the following table. Estimate runoff from a rainfall of 50cm at the mouth this river basin following SCS-CN method.

	Curve Numbers  HYDROLOGICAL SOIL GROUPS				Area in the River basin (Sq Km)			
Land Uses							· · · · · · · · · · · · · · · · · · ·	
	A	В	С	D	A	В	С	D
Settlement	51	68	79	84	8	4	24	7
Dense Forest	32	58	72	79	4	9	8	6
Cultivated land [contoured & terraced]	66	74	80	82	4	5	6	5
Marshy Land	89	92	95	98	9	8	2	-
Dry Fallow	77	86	91	94	3	4	8	5
Water Bodies	100	100	100	100	4	4	7	4

3. Laboratory note book and Viva voce

