

CIVIL ENGINEERING DEPARTMENT
The University of Lahore
Irrigation and Hydraulic

Time: 2:00

Total Marks: 50

- Q. No.1 Briefly discuss the prevailing constraints of Irrigation and remedial measures for the same. **(10)**
- Q. No. 2 Define and explain Duty, Delta and Base Period? What is the relationship between Delta and the other factors? **(10)**
- Q. No. 3 The GCA of Abaya-Hayat Disty is 10,000 Hectors, out of which 10% is un-commendable. The Disty has been designed on the following parameters. **(10)**

Parameter	Kharif	Rabi
Intensity	60%	40%
Base period (Days)	70	30
Delta (m)	0.8	0.5
Duty (ha/cms)	200	100

Assuming 10% Conveyance losses; Calculate the Designed Discharge of Disty at the Head?

- Q. No. 4 Briefly discuss the various methods of Irrigation. Which is the most efficient and why? **(10)**
- Q. No. 5 List out the factors affecting Duty of Crop? **(05)**
(a)
- Q. No. 5 During the month of March, a wheat crop field has the percentage of sunshine as 6.5 hours and mean monthly temperature remained 15⁰C. If the consumptive use coefficient of the crop is 0.65 for that month. Find per day consumptive use of the crop by Blaney-Cridle Method? **(05)**
(b)