

IQRA NATIONAL UNIVERSITY, PESHAWAR

DEPARTMENT OF CIVIL ENGINEERING

FINAL TERM EXAMINATION

Subje Instru Cours	ct: ictor: se code:	Irrigation Engineering Prof. Dr. Jahangir Durrani CE-324	Duration: Total Marks:	6 hrs. 50	
Note: Attempt all questions. Manage your time properly. Understanding question paper is the part of examination. Draw diagrams wherever necessary.					
No. ((01)			(5+5+5)	
a) b) c)	Explain Differei How do	anti water-logging measures. ntiate between saline and alkaline soils. you reclaim salt affected lands?			
No. ((02)			(7+7)	
a) b)	Explain Design and N a	Explain the procedure of designing of an irrigation canal by Kennedy's theory. Design an irrigation channel by Kennedy's theory to carry a discharge of 30 cumecs with cvr (m) of 1 and N as 0.0225 and bed slope of 1 in 5000. Assume the depth (D) as 2.3 m.			
No. (03)			(5+6)		
a) b)	Differentiate between initial regime and final regime in accordance to Laceys theory. Design a regime channel by Laceys theory for discharge of 30 cumecs and mean diameter of silt particle of 0.56mm.				
No. ((04)			(5+5)	
a)	Explai	the components of headworks with neat diagr	am.		

b) What are the functions of Head regulators?