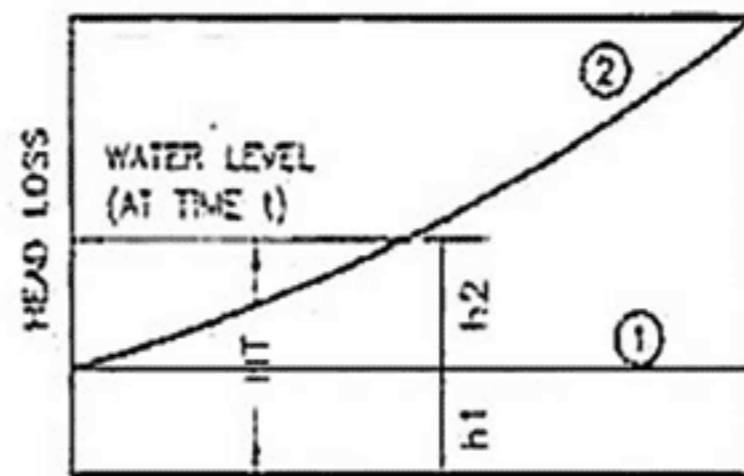
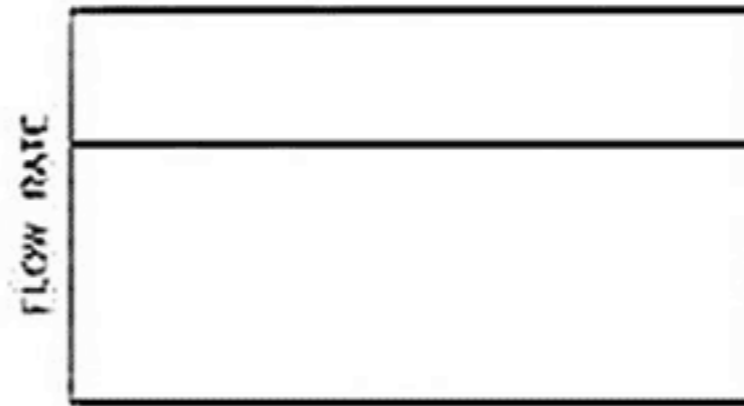
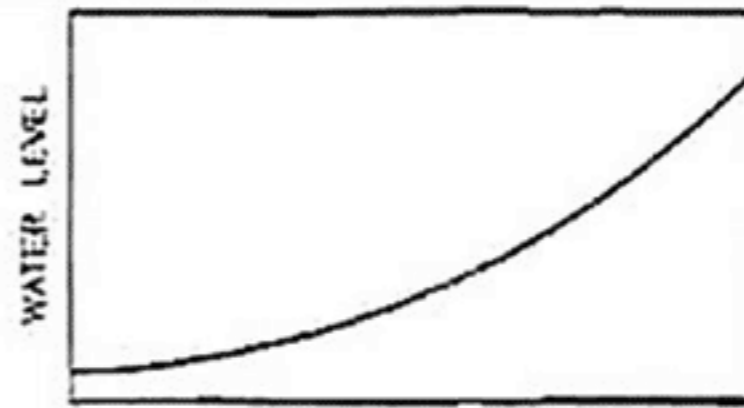
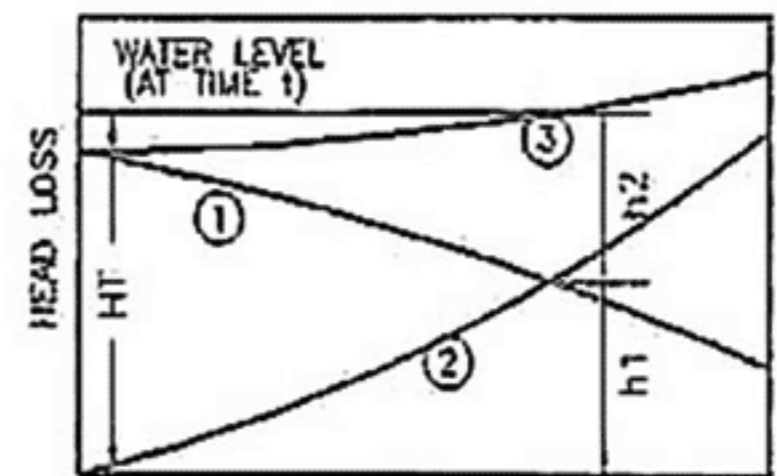
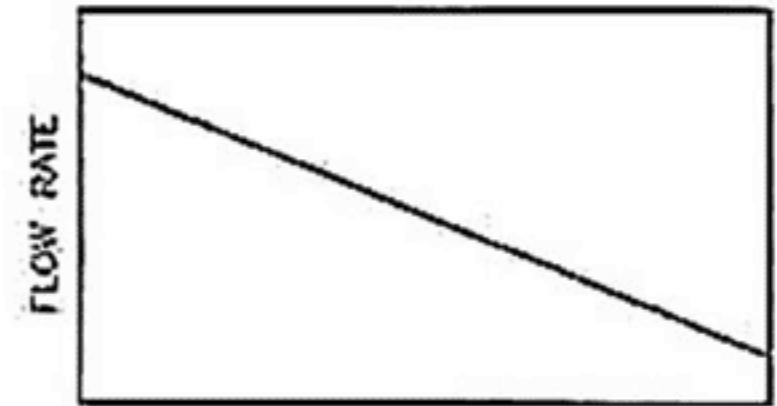
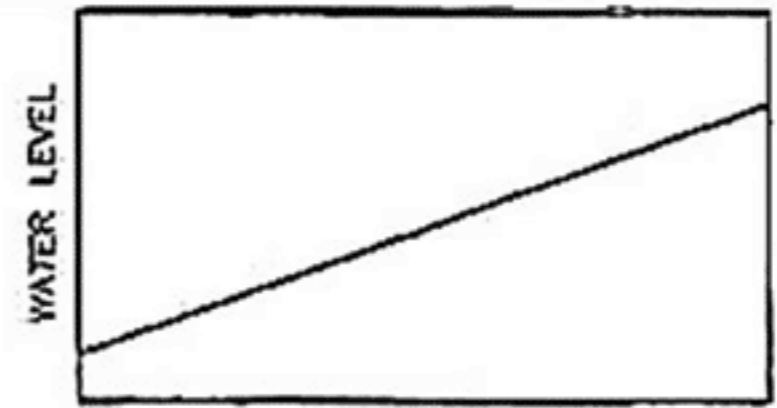


TIME OF FILTRATION
(a)



TIME OF FILTRATION
(b)



TIME OF FILTRATION
(c)

HEAD LOSSES, FLOW RATES, AND WATER LEVELS IN FILTER CONTROL SYSTEMS:(a) CONSTANT-RATE FILTRATION WITH RATE CONTROLLERS;(b) CONSTANT-RATE FILTRATION WITH INFLUENT FLOW SPLITTING;(c) DECLING-RATE FILTRATION. ONE, h_1 = HEAD LOSS DUE TO CLEAN BED, UNDERDRAINS, VALVES, PIPES AND FITTINGS; TWO, h_2 = HEAD LOSS DUE TO CLOGGING OF THE FILTER BED; THREE, HT = TOTAL HEAD LOSS; h_3 = EXCESS HEAD (EXPENDED IN RATE CONTROLLER OR VALVE)
(SOURCE: SHULZ & OKAN, SURFACE WATER TREATMENT FOR COMMUNITIES IN DEVELOPING COUNTRIES)