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Question: (d) A 200 gram/litre solution of salt was discharged into a stream...



- (d) A 200 gram/litre solution of salt was discharged into a stream at a constant rate of 25 l/s. The background concentration of the salt in the stream was found to be 10 ppm (part per million). At a downstream section where the solution have been completely mixed, the salt concentration was found to reach an equilibrium value of 45 ppm. Identify the discharge in the stream.

(5 marks)

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Expert Answer

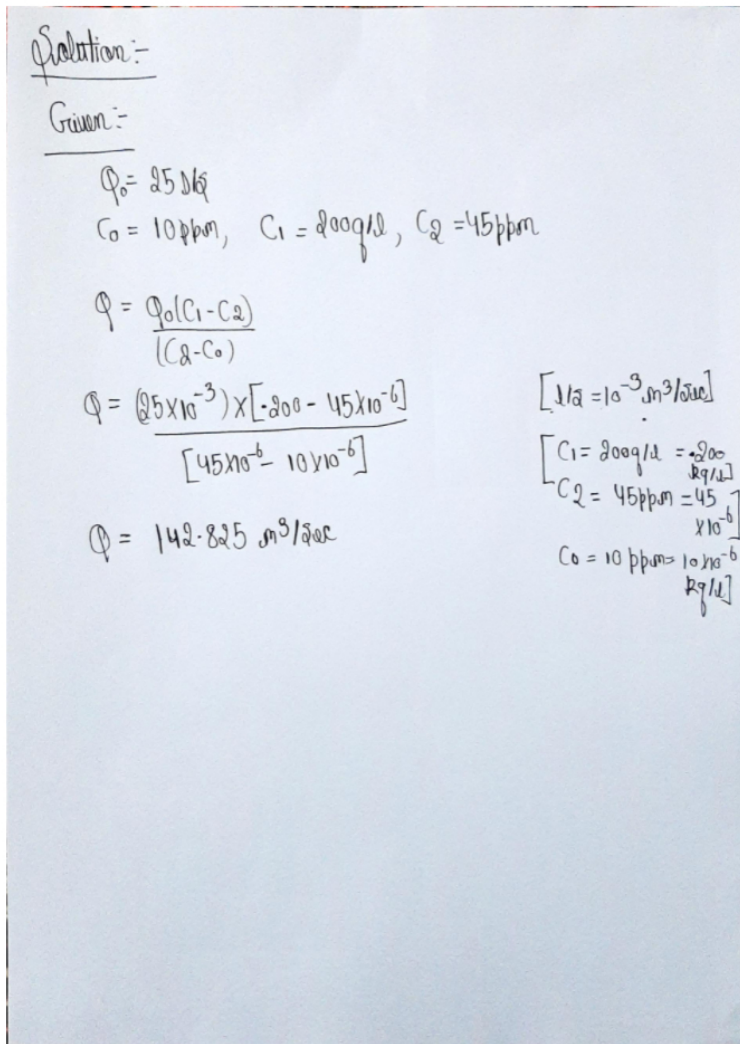


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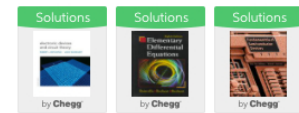
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(c) Compute the seasonal consumptive use of a tomato crop in Coconino, Utah based if

25. 25 gm/l solution of a fluorescent tracer was discharged into a stream at a

drop in Cameron Highland is the mean monthly tempera...

04 Compute the normal atmospheric rate of a certain drop in Cameron Highland if the mean monthly temperature for May, June, July and August are 24.4, 23.1, 23.9 and 23.8 °C, respectively. Given $k = 0.05$, Latitude 3° South. Refer Table Q2 for the dry-bulb mean coefficient values. (7 marks)

05 A spreading test is carried out on a plot of 25 m². The standard rainfall intensity is 20 mm/h. After 4 hours, the surface runoff from the plot becomes constant and equal to 0.02 m³. (7 marks)

(i) Compute the ultimate infiltration capacity in mm/h.

[See answer](#)

discharged into a stream at a constant rate of 10 cm³ /s. The background concentration of the dye in the stream was found to be zero. At a sufficiently distance

[See answer](#)

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Q: Q4. Stage-discharge data for a river was used to extract following information. Determine the stage corresponding to zero discharge Table 2: Stage-Discharge Data Stage, G (m) Discharge, Q (m³s): 100 200 400 25.08 25.84 26.85

A: [See answer](#)

Q: During a flood the water surface at a section in a river was found to increase at a rate of 11.2 cm/h. The slope of the river is 1/3600 and the normal discharge for the river stage read from a steady-flow rating curve was 160 m³/s. If the velocity of the flood wave can be assumed as 2.0 m/s, determine the actual discharge.

A: [See answer](#)

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