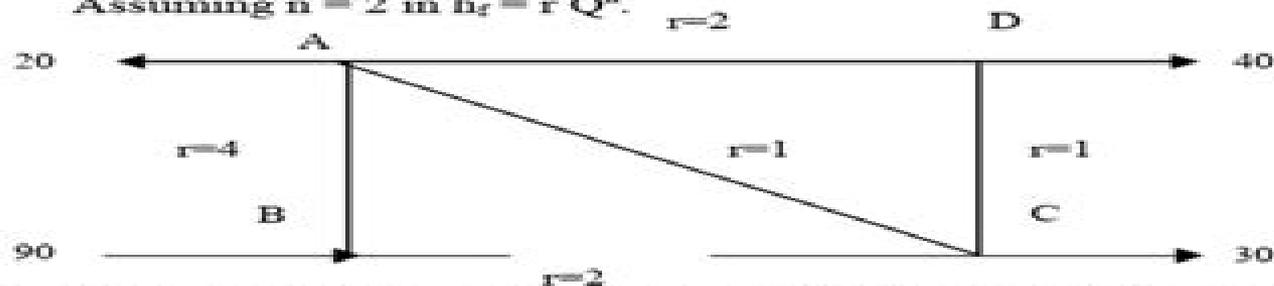


Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) Differentiate between pipe flow and open channel flow. Derive Hagen-Poiseuille's equation for the drop in pressure head for laminar flow through circular pipes 8
- b) Determine the rate of flow of water through a pipe of 20 cm diameter and length 50 m when one end of the pipe is connected to a tank and other end of the pipe is open to the atmosphere. The pipe is horizontal and the height of water in the tank is 4 m above the center of the pipe. Consider all losses and take frictional coefficient $f = 0.009$. 7
2. a) Solve the following pipe network by using Hardy cross method. Assuming $n = 2$ in $h_f = r Q^n$. 8



- b) Two reservoirs are connected by a pipe line consisting of two pipes, one is 15 cm diameter and length of 25 m and the other of 30 cm diameter and length of 15 m. If the difference of water level in the two reservoir is 12 m, calculate the discharge and draw the energy gradient line. Take friction factor $f=0.04$. 7
3. a) What is most economical channel section? Derive the condition for the best side slope of the most economical rectangular channel. 6
- b) A main channel has to irrigate certain area. Following data are available for design: 9

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