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Q :) According to Indian Standards, the number of raingauge stations for an area of 5200 km² in planes should be

A. 10

B. 15

C. 20

D. 40

Q :) The maximum superelevation on hill roads should not exceed

- A. 7**
- B. 8**
- C. 9**
- D. 10**

Q :) End of speed limit is

- A. regulatory sign**
- B. warning sign**
- C. informative sign**
- D. None of the above**

Q :) The stopping sight distance(S) of a vehicle for Indian highways is given by

Here V is the speed of vehicle, t is the brake reaction time and η ; is the efficiency of brakes.

A. $S=0.28V \cdot t+0.01V^2/\eta$

B. $S=0.28V \cdot t+0.01\eta/V^2$

C. $S=0.01V \cdot t+0.28V^2/\eta$

D. $S=0.01V \cdot t+0.28\eta/V^2$

Q :) The perimeter discharge (P-Q) relation is given by the equation

A. $P=2.25Q^{1/2}$

B. $P=2.25Q^{3/2}$

C. $P=4.75Q^{1/2}$

D. $P=4.75Q^{3/2}$

Q :) Delta; Psi; between two streamlines represents

- A. velocity
- B. discharge
- C. head
- D. **pressure**

A block of wood 2 m long, 2 m wide and 1 m deep is floating horizontally in water. If density of wood is 800 kg/m^3 , then the volume of water displaced will be

A. 3.2 m^3

B. 2.6 m^3

C. 2 m^3

D. 6 m^3

Q:)The rate of filtration of a slow sand filter ranges from

- A. 10 to 100 L/h/m²**
- B. 10 to 200 L/h/m²**
- C. 200 to 400 L/hm²**
- D. 400 to 1000 L/h/m²**

Q:) In designing Imhoff tanks, the usual retention period is

- A. 2 hours**
- B. 8 hours**
- C. 14 hours**
- D. 20 hours 1**

Q:) The maximum spacing of laterals in a rapid sand filter can be

- A. 10 cm**
- B. 30 cm**
- C. 50 cm**
- D. 100 cm**

Q:) When the bed level of canal is higher than the Highest Flood Level (HFL) of discharge, then the cross discharge work is said to be

- A. aqueduct**
- B. super-passage**
- C. canal syphon**
- D. under tunnel**

Q:) If W is total BOD, V is filter volume and F is recirculation factor in a trackling filter, then unit organic loading is obtained by >

A. $u = WF/V$

B. $u = VF/W$

C. $u = WV/F$

D. $u = W/VF$

Q:) In water supply pipes, wrought iron and cast iron pipes have relationship as

- A.** life of wrought iron pipes $>$ life of cast iron pipes
- B.** life of cast iron pipes $>$ life of wrought iron pipes
- C.** both life spans are equal
- D.** life of wrought iron pipes $= 2$ (life of cast iron pipes)

Q:) The bed of canal is lowered in case of

- A.** syphon aqueduct
- B.** canal syphon
- C.** level crossing
- D.** All of the above

Q:) Which of the following hydraulic units is used for transmitting increased or decreased torque to the driven shaft?

- A.** Hydraulic ram
- B.** Hydraulic intensifier
- C.** Hydraulic torque converter
- D.** Hydraulic accumulator

Q:) When the length of bodywall of a fall is less than the normal width of a canal, it is called

- A.** notch fall
- B.** sarda fall
- C.** flumed fall
- D.** ogee fall

Q:) Cross regulators are provided

A.

to rise the water level to its upstream during the periods of low discharge in parent channel

B.

to help in closing the supply to downstream of the parent channel

C.

to absorb fluctuations in various sections of the channel system

D.

All of the above

Q:) When the reservoir is full, the maximum compressive forces in a gravity dam is produced

- A.** at the toe
- B.** at the heel
- C.** within the middle third of the base
- D.** at the centre of base

Q:) Sewage treatment units are normally designed for

- A.** 5-19 years
- B.** 15-20 years
- C.** 30-40 years
- D.** 40-50 years

Q:) In water supply for public, there should odour should be

- A.** 1
- B.** between 1 and 3
- C.** 3
- D.** more than

Q:) Septic tank is a

- A.** settling tank
- B.** digestion tank
- C.** both (a) and (b)
- D.** none of the above

Q:) The pipe which is used to carry the discharge from sanitary fittings like bathrooms, kitchen etc. is called

- A.** waste pipe
- B.** soil pipe
- C.** vent pipe
- D.** anit-siphonage pipe

Q:) The pipes for water supply are tested for

- A.** pressure
- B.** leakage
- C.** dimensions
- D.** All of the above

Q:) In rapid sand filters, the depth of tank varies in between

- A.** 1 m to 2 m
- B.** 2.5 m to 3.5 m
- C.** 3 m to 3.5 m
- D.** 0.6 m to 0.9 m

Q:) Seepage through embankment in a earth dam is controlled by

- A.** drainage filters
- B.** drain trench
- C.** relief wells
- D.** provision of downstream berms

Q:) A chamber made of concrete, fibre glass, PVC or plastic. thorough which domestic waste water, sewage flows for primary treatment is called

- A.** drainage tank
- B.** spetic tank
- C.** pit latrine tank
- D.** water haarvesting tank

Q:) Septic tank is usually consists of brick wall in cement not less than

- A.** 20 cm
- B.** 100 cm
- C.** 80 cm
- D.** 200 cm

Q:) The BOD after the filtration of sewage from the low rate trickling filter is

A. 40-50%

B. 80-90%

C. 70-80%

D. 90-99%

Q:) The organic loading in a trickling filter is measured in

- A.** m^3/day
- B.** $\text{gm}/\text{m}^2/\text{day}$
- C.** $\text{kg}/\text{hectare-meter}/\text{day}$
- D.** $\text{kg}/\text{hectare day}$



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