

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

[BPSC 2018]

- 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: A chamber made of concrete, fibre glass, PVC or plastic, through which domestic waste water sewage flows for primary treatment is called

[BPSC 2018]

- A : Drainage tank**
- B : Septic tank**
- C : Pit latrine tank**
- D : Water harvesting tank**

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

[BPSC 2018]

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

Q: The recirculation factor in a low rate trickling filter is

[BPSC 2018]

- A : 0**
- B : 1**
- C : 10**
- D : 100**

Q: A type of bond in the brick masonry in which each course consists of alternate headers and stretchers is

[BPSC 2016]

- A : English bond**
- B : Raking bond**
- C : Dutch bond**
- D : Flemish bond**

Q: Quoins in brick masonry are

[BPSC 2018]

- A : Bricks cut a corners in a triangular fashion**
- B : Half-brick with length same but width**
- C : Squint junction of walls**
- D : Corner junction of walls**

Q: If r is rise and g is going of stairs, the empirical formula used to fix rise and going is $2r + g$ and it should be between

[BPSC 2018]

- A : 500 mm-600 mm**
- B : 550 mm-650 mm**

C : 600 mm-650 mm

D : 650 mm-700 mm

Q: Which one of the following is not a type of trap used in plumbing?

[BPSC 2018]

A : P-type

B : Q-type

C : S-type

D : Z-type

Q: Pallet board is used

[BPSC 2018]

A : To make frog in the brick

B : To mount the mould

C : For table moulding of brick

D : None of the these

Q: A theodolite is considered to be in proper condition, if

[BPSC 2018]

A : The axis of the plate is perpendicular to the vertical axis

B : The trunnion axis is perpendicular to the vertical axis

C : The axis of the altitude level is parallel to the line of collimation

D : All of the above

Q: The minor instrument used not only to take horizontal sights but also inclined sights are known as

[BPSC 2018]

- A : Clinometer**
- B : Sextant**
- C : Pantograph**
- D : Planimeter.**

Q: The maximum permissible total solid content in water for domestic purpose should not exceed

[BPSC 2018]

- A : 400 p.p.m.**
- B : 500 p.p.m.**
- C : 600 p.p.m.**
- D : 800 p.p.m.**

Q: For a satisfactory workable concrete with a constant water cement ratio, increase in aggregate cement ratio:

[OPSC 2016]

- A : Decrease the strength of concrete**
- B : Does not change the strength of concrete**
- C : Increase the strength of concrete**
- D : None of these**

Q: The tolerance in the width of mould of class | brick is about:

- A : ± 3 mm
- B : ± 6 mm
- C : ± 10 mm
- D : ± 12 mm

Q: The type of flooring suitable for the use in theatres and public libraries and other places where noiseless floor covering is desired:

[OPSC 2016]

- A : Wooden flooring
- B : Linoleum flooring
- C : Cork flooring
- D : None of these

Q: According to Lacey's equation, the scour depth is equal to:

[OPSC 2016]

- A : $0.47 \left(\frac{Q}{f} \right)^{1/2}$
- B : $0.47 \left(\frac{Q}{f} \right)^{1/3}$
- C : $0.47 \left(\frac{Q}{f} \right)^{1/4}$
- D : $0.47 \left(\frac{Q}{f} \right)^{1/5}$

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Q: When a canal is carried over a natural drainage:

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[OPSC 2016]

A : Syphon

B : Aqueduct

C : Super passage

D : Syphon-aqueduct

Q: Highest dam in India, is

[OPSC 2016]

A : Hirakund dam

B : Nagarjuna Sagar dam

C : Idukki dam

D : Bhakra dam

Q: Sludge treatment is mainly done in order to:

[OPSC 2016]

A : Stabilize the organic matter

B : Destroy the water content

C : Reduce the water content

D : All of the above

Q: The most efficient traffic signal is:

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[OPSC 2016]

A : Simultaneous system

B : Flexible progressive system

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C : Simple progressive system

D : Alternate system

Q: Which of the following methods is recommended by IRC for the design of flexible pavement?

[OPSC 2016]

A : Group index method

B : CBR method

C : Westergaard method

D : None of the above.

Q: The error which is not completely eliminated in reciprocal leveling is:

[OPSC 2016]

A : Error due to curvature

B : Error due to refraction

C : Error due to non-adjustment of line of collimation

D : Error due to non-adjustment of bubble tube.

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