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Sedimentation of Wastewater [Wastewater Engineering]



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In primary sedimentation of domestic wastewater, about _____ % suspended solids are removed

- (A) 15 to 30
- (B) 30 to 45
- (C) 45 to 60
- (D) 60 to 80



ANSWER: (C) 45 to 60

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Secondary settling tanks can remove flocculated solids upto

- (A) 70 %
- (B) 80 %
- (C) 50 %
- (D) 99 %



ANSWER: (D) 99 %

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Chemical used in chemical clarification of wastewater is

- (A) Alum
- (B) Lime
- (C) Ferric chloride
- (D) Any of the above



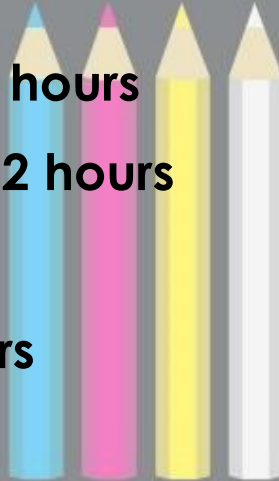
ANSWER: (D) Any of the above

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Detention time for primary settling tank and secondary settling tank is ____ and ____ respectively.

- (A) 1 to 1.5 hours, 3 to 4 hours
- (B) 2 to 2.5 hours, 1.5 to 2 hours
- (C) 2 hours, 1 hour
- (D) 4 hours, 5 to 5.5 hours



ANSWER: (B) 2 to 2.5 hours, 1.5 to 2 hours

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Upto ____ % BOD removal from wastewater takes place in primary sedimentation

(A) 30 to 45

(B) 15 to 30

(C) 10 to 15

(D) 60 to 80



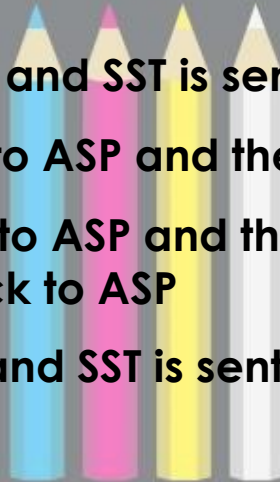
ANSWER: (A) 30 to 45

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Choose the correct statement about primary sedimentation tank (PST), secondary sedimentation tank (SST) and activated sludge process (ASP)

- (A) All the effluent from PST and SST is sent to ASP
- (B) Effluent from PST is sent to ASP and then from ASP to SST
- (C) Effluent from PST is sent to ASP and then from ASP to SST from where it is recirculated back to ASP
- (D) Effluents from both PST and SST is sent to ASP and then recirculation takes place



ANSWER: (C) Effluent from PST is sent to ASP and then from ASP to SST from where it is recirculated back to ASP

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Primary settling tanks are used to remove particles with their settling rates of

(A) 0.1 to 0.3 mm/s

(B) 0.3 to 0.7 mm/s

(C) 0.7 to 1.0 mm/s

(D) All of the above



ANSWER: (B) 0.3 to 0.7 mm/s

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A septic tank is

- (A) Sedimentation tank
- (B) Digestion tank
- (C) Both (A) and (B)
- (D) None of the above



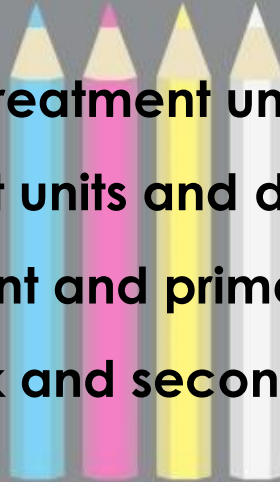
ANSWER: (C) Both (A) and (B)

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In multistage biological treatment units, intermediate settling tanks are used between

- (A) SST and biological treatment units
- (B) biological treatment units and digester
- (C) Preliminary treatment and primary settling tanks
- (D) Primary settling tank and secondary settling tanks



ANSWER: (D) Primary settling tank and secondary settling tanks

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