

Code No: 56002

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

ENVIRONMENTAL ENGINEERING

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. A trickling filter consists of a fixed bed of _____ []
a) Rocks b) Gravel c) Slag d) All the above
2. BOD is most commonly expressed in milligrams of oxygen consumed per litre of sample during 5 days of incubation at _____ °C []
a) 10 b) 5 c) 20 d) 37
3. The manhole cover and frame are made up of _____ []
a) Cast iron b) Aluminum c) manganese d) copper
4. The equation for COD can be written as _____ []
a) $COD=8000(a-b) N / ml.sample$ b) $COD=800(a-b) N / ml.sample$
c) $COD=600(a-b) N / ml.sample$ d) $COD=600(a-b) N / ml.sample$
5. The specific gravity of a particles in the grit chamber is _____ []
a) 2 b) 3 c) 2.65 d) 1.21
6. In mechanically cleaned grit chamber, _____ blades collect the grit settled on the floor of the grit chamber. []
a) scraper b) torsion c) abrasive d) rotating
7. Color of fresh sewage is _____ []
a) Green b) brown c) pink d) grey
8. Generally Hardy Cross method is also known as _____ method. []
a) Gradient distribution b) Moment distribution
c) Velocity distribution d) Frequency distribution
9. The peak in the design of distribution of pipe is taken as _____ times the avg. daily flow []
a) 4 b) 2 c) 3 d) 5
10. The common end products for both aerobiosis and anaerobiosis is _____ []
a) H₂S b) CH₄ c) NO₂ d) CO₂

Cont.....2

II Fill in the blanks

11. The formula for calculating BOD can be given as _____
12. _____ is a bacterial process where the sludge digestion is carried out in the absence of oxygen.
13. An oxidation pond is also called as _____
14. Biological layer stickling to the _____ filter media consists of bacteria, protozoa, and fungi
15. A place where sewage is treated especially for its use as manure is called as _____
16. _____ pipes are normally used in the sewage lines and they can also be used in raw water and drinking water
17. The time of concentration to any point in a storm water is a combination of _____ and time of flow in the sewer
18. _____ rate of sedimentation tank is $Q/Plan$ area
19. _____ Chambers are basins to remove organic particles to prevent damage to pumps and accumulation of sludge.
20. A single-pipe system that collect both sewage and urban runoff from streets and roofs. This type of collection system is referred to as a _____.

Set No. 2

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

Objective Exam

Name: _____ **Hall Ticket No.**

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. The equation for COD can be written as _____ []
a) $\text{COD} = 8000(a-b) \text{ N / ml.sample}$ b) $\text{COD} = 800(a-b) \text{ N / ml.sample}$
c) $\text{COD} = 600(a-b) \text{ N / ml.sample}$ d) $\text{COD} = 600(a-b) \text{ N / ml.sample}$
2. The specific gravity of a particles in the grit chamber is []
a) 2 b) 3 c) 2.65 d) 1.21
3. In mechanically cleaned grit chamber, _____ blades collect the grit settled on the floor of the grit chamber. []
a) scrapper b) torsion c) abrasive d) rotating
4. Color of fresh sewage is []
a) Green b) brown c) pink d) grey
5. Generally Hardy Cross method is also known as _____ method. []
a) Gradient distribution b) Moment distribution
c) Velocity distribution d) Frequency distribution
6. The peak in the design of distribution of pipe is taken as _____ times the avg. daily flow []
a) 4 b) 2 c) 3 d) 5
7. The common end products for both aerobiosis and anaerobiosis is []
a) H_2S b) CH_4 c) NO_2 d) CO_2
8. A trickling filter consists of a fixed bed of _____ []
a) Rocks b) Gravel c) Slag d) All the above
9. BOD is most commonly expressed in milligrams of oxygen consumed per litre of sample during 5 days of incubation at _____ $^{\circ}\text{C}$ []
a) 10 b) 5 c) 20 d) 37
10. The manhole cover and frame are made up of []
a) Cast iron b) Aluminum c) manganese d) copper

Cont.....2

II Fill in the blanks

11. Biological layer stickling to the _____ filter media consists of bacteria, protozoa, and fungi
12. A place where sewage is treated especially for its use as manure is called as _____
13. _____ pipes are normally used in the sewage lines and they can also be used in raw water and drinking water
14. The time of concentration to any point in a storm water is a combination of _____ and time of flow in the sewer
15. _____ rate of sedimentation tank is $Q/\text{Plan area}$
16. _____ Chambers are basins to remove organic particles to prevent damage to pumps and accumulation of sludge.
17. A single-pipe system that collect both sewage and urban runoff from streets and roofs. This type of collection system is referred to as a _____.
18. The formula for calculating BOD can be given as _____
19. _____ is a bacterial process where the sludge digestion is carried out in the absence of oxygen.
20. An oxidation pond is also called as _____

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Set No. 3

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

ENVIRONMENTAL ENGINEERING

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. In mechanically cleaned grit chamber, _____ blades collect the grit settled on the floor of the grit chamber. []
a) scrapper b) torsion c) abrasive d) rotating
2. Color of fresh sewage is []
a) Green b) brown c) pink d) grey
3. Generally Hardy Cross method is also known as _____ method. []
a) Gradient distribution b) Moment distribution
c) Velocity distribution d) Frequency distribution
4. The peak in the design of distribution of pipe is taken as _____ times the avg. daily flow []
a) 4 b) 2 c) 3 d) 5
5. The common end products for both aerobiosis and anaerobiosis is []
a) H₂S b) CH₄ c) NO₂ d) CO₂
6. A trickling filter consists of a fixed bed of _____ []
a) Rocks b) Gravel c) Slag d) All the above
7. BOD is most commonly expressed in milligrams of oxygen consumed per litre of sample during 5 days of incubation at _____ °C []
a) 10 b) 5 c) 20 d) 37
8. The manhole cover and frame are made up of []
a) Cast iron b) Aluminum c) manganese d) copper
9. The equation for COD can be written as _____ []
a) $COD = 8000(a-b) N / \text{ml.sample}$ b) $COD = 800(a-b) N / \text{ml.sample}$
c) $COD = 600(a-b) N / \text{ml.sample}$ d) $COD = 600(a-b) N / \text{ml.sample}$
10. The specific gravity of a particles in the grit chamber is []
a) 2 b) 3 c) 2.65 d) 1.21

Cont.....2

II Fill in the blanks

11. _____ pipes are normally used in the sewage lines and they can also be used in raw water and drinking water
12. The time of concentration to any point in a storm water is a combination of _____ and time of flow in the sewer
13. _____ rate of sedimentation tank is $Q/\text{Plan area}$
14. _____ Chambers are basins to remove organic particles to prevent damage to pumps and accumulation of sludge.
15. A single-pipe system that collect both sewage and urban runoff from streets and roofs. This type of collection system is referred to as a _____.
16. The formula for calculating BOD can be given as _____
17. _____ is a bacterial process where the sludge digestion is carried out in the absence of oxygen.
18. An oxidation pond is also called as _____
19. Biological layer stickling to the _____ filter media consists of bacteria, protozoa, and fungi
20. A place where sewage is treated especially for its use as manure is called as _____

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

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9. In mechanically cleaned grit chamber, _____ blades collect the grit settled on the floor of the grit chamber. []
a) scrapper b) torsion c) abrasive d) rotating
10. Color of fresh sewage is []
a) Green b) brown c) pink d) grey

II Fill in the blanks

11. _____ rate of sedimentation tank is $Q/\text{Plan area}$
12. _____ Chambers are basins to remove organic particles to prevent damage to pumps and accumulation of sludge.
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