Assignment 8

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-03-27, 23:59 IST.

1) Processes which come under primary treatment:

- [ ] Screening and grit removal
- [ ] Activated sludge process
- [ ] Disinfection
- [ ] Sedimentation
- [ ] Bio film formation
- [ ] Digestion of sludge

No, the answer is incorrect.
Score: 0

Accepted Answers:
Screening and grit removal
Sedimentation

2) Correct directions in waste water cycle:

1) Combined storm water, drain water and sewage
2) Reclaimed water and reuse
3) River
4) Waste water treatment
5) Irrigation

- [ ] 1 - 4 - 3
- [ ] 1 - 4 - 2 - 5
- [ ] 3 - 1 - 5
- [ ] 3 - 4 - 5

No, the answer is incorrect.
Score: 0
4) State correct statements regarding activated sludge food web:

- Dissolved organic matter is consumed by bacteria.
- Rotifers are able to consume all types of protozoa.
- Protozoan can directly consume particulate as well as dissolved organic matter without any intervention of bacteria.
- Bacteria are consumed by both protozoa and rotifers.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Dissolved organic matter is consumed by bacteria.
Bacteria are consumed by both protozoa and rotifers.

5) Which statements are correct in perspective of Enhanced Biological Phosphorus removal:

- In anaerobic reactor PAOs produce intracellular polyhydroxyalkanoates (PHA) and soluble orthophosphate is released.
- In aerobic reactor Intracellular polyphosphate is formed removing orthophosphate from solution.
- They are strong enough to proliferate when competing microbes are there.
- All statements are correct.

No, the answer is incorrect.
Score: 0
Accepted Answers:
In anaerobic reactor PAOs produce intracellular polyhydroxyalkanoates (PHA) and soluble orthophosphate is released.
In aerobic reactor Intracellular polyphosphate is formed removing orthophosphate from solution.

6) Say true or false:

Bricks, mortar and concrete are generally bio deteriorated by film formation.

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers:
False

7) Which of these functions as a key neurotransmitter at both terminals of the network i.e. between the central nervous system and the gastrointestinal tract?

- Noradrenaline
- Dopamine
- Serotonin
Glycine

No, the answer is incorrect.
Score: 0
Accepted Answers:
Serotonin

8) Match these three overlapping main domains of exposomes with their correct contents:

| A. General external environment | a. Inflammation, oxidative stress or ageing |
| B. Specific external environment | b. Education, climate or social factors |
| C. Internal environment         | c. Physical activity, tobacco, infection or occupation |

- A-c, B-b, C-a
- A-a, B-b, C-c
- A-c, B-a, C-b
- A-b, B-c, C-a

No, the answer is incorrect.
Score: 0
Accepted Answers:
A-b, B-c, C-a

9) Say true or false:
Adductomics is used for the analysis of biological molecules have been used to measure the more downstream effects of environmental exposures.

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers:
False

10) Which advanced oxidation process may help in intended reuse in groundwater recharge:

- Ozone+ UV+ Ultrafiltration
- UV+ nanofiltration
- RO+ UV+ ozone
- RO+ UV+ ozone

No, the answer is incorrect.
Score: 0
Accepted Answers:
RO+ UV+ ozone