

Unit 9 - Week 7

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Assignment 7

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

Due on 2020-11-04, 23:59 IST.

- 1) Oxidation process is characterized by _____? 1 point
- a) Loss of electrons in the transfer process
b) Gain of electrons
c) Presence of oxidized component or oxidant (electron acceptor)
d) Both a and c
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
d)
- 2) A species shows high tendency to be reduced when its Eh is 1 point
- a) Highly positive
b) near zero
c) Highly negative
d) unspecified
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a)
- 3) Which is not correct regarding increase in Eh ? 1 point
- a) Increases the activity of the reduced species
b) Increases the activity of oxidized species
c) pH decreases
d) H⁺ activity increases
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a)
- 4) The oxygen–nitrogen range has been defined by Eh values of +250 to +100 mV, the iron range as +100 to 0.0 mV, the sulfate range as 0.0 to –200 mV, and the methane–hydrogen range as <200 mV 1 point
- a) True
b) False
- a)
 b)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a)
- 5) Which of the following is false regarding Pe? 0 points
- a) Pe is the negative logarithm of electron activity
b) Pe is large and positive in strongly oxidizing systems
c) Low and negative in strongly reducing systems
d) All the above
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
d)
- 6) Gain of electrons can be termed as _____ 1 point
- a) Metabolism
b) Anabolism
c) Oxidation
d) Reduction
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
d)
- 7) The submerged materials influence _____? 1 point
- a) The type of soil which develops from it
b) The type of aquatic life and crops it supports
c) Capacity of these sediments to act as sink for terrestrial waste
d) All the above
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
d)
- 8) The magnitude and rate of the Eh decrease depends on _____? 1 point
- a) The kind of soil organic matter and amount of soil organic matter
b) The nature and content of e–acceptors, temperature, and period of submergence
c) Both a and b
d) None of the above
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c)
- 9) In submerged soils, mineralization of N is restricted to 1 point
- a) Ammonification
b) Denitrification
c) Immobilization
d) Nitrification
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a)
- 10) Which is not true regarding P in submerged soils? 1 point
- a) The mobility of P is higher
b) The mineralization of organic P will be higher
c) The solubility of P compounds gets reduced
d) None of the above
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c)
- 11) What is the relationship between oxygen content and Eh? 1 point
- a) Oxygen content decreases with increase in Eh
b) Oxygen content remains unaltered with Eh
c) Oxygen content decreases with decrease in Eh
d) None of the above
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
c)
- 12) How is crop growth promoted in paddy soils by flooding? 1 point
- a) Flooding increases its Eh
b) Flooding decreases its Eh
c) Flooding brings the Eh to zero
d) None of the above
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b)
- 13) What is the implication of oxidation of chromium (III) to Cr(VI) in soils? 1 point
- a) Cr (VI) is less soluble
b) Cr (VI) is a carcinogen
c) Both a and b
d) Cr (VI) has no implications
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
b)
- 14) What is the fate of iron in submerged soils? 1 point
- a) It is oxidized
b) It is reduced
c) It is leached
d) All of the above
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a)
- 15) Oxidant strength decreases in the order of? 1 point
- a) Mn(III,IV)oxides > Co(III)oxides > Fe(III)oxides
b) Mn(III,IV)oxides < Co(III)oxides < Fe(III)oxides
c) Mn(III,IV)oxides < Fe(III)oxides < Co(III)oxides
d) Mn(III,IV)oxides > Fe(III)oxides < Co(III)oxides
- a)
 b)
 c)
 d)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
a)