**Problematic soils and Their Management[ASAC3103]**

**MCQ**

1. What is a substance that donates H+ to some other substances called?

(A)Base (B) Neutron

(C)Acid (D ) All

Ans: **(C)Acid**

2. What are those solutions having pH less than 7 called?

(A)Acidic (B) Saline

(C)Alkaline (D) Neutral

Ans: **(A)Acidic**

3. Which type of soil acidity is measured by soil pH?

(A)Passive acidity (B) Active acidity

(C)Total acidity (D)Exchangeable acidity

Ans: **(B) Active acidity**

4. In acid soil, due to what does Al3+cause acidity?

(A)Oxidation (B) Reduction

(C)Hydrolysis (D )Hydration

Ans:**(C)Hydrolysis**

5. Who proposed the lime potential?

(A)Beckett (B) Schofield

(C)Ramamoorthy (D)Richards

Ans: **(B) Schofield**

6. What is the CCE value of CaO?

(A)108 (B) 136

(C)179 (D )60

Ans: **(C)179**

7. What is the CCE value of Ca(OH)2?

(A) 108 (B) 136

(C) 179 (D) 60

Ans: **(B) 136**

8. How can an acid soil be best described?

(A)Base saturated (B) Base unsaturated

(C)Acid unsaturated (D)All

Ans**: (B) Base unsaturated**

9. Who proposed the term lime requirement?

(A)Schoonover (B) Schofield

(C)Ramamoorthy (D )Shoemaker *et al.*

Ans: **(D )Shoemaker *et al.***

10. Who proposed the term Gypsum requirement ?

(A) Schoonover (B) Schofield

(C) Ramamoorthy (D) Shoemaker *et al.*

Ans**: (A) Schoonover**

11. For amelioration of which among the following soils is Gypsum used?

(A)Alkali soil (B) Saline soil

(C) Acid soil (D ) All

Ans**: (A) Alkali soil**

12. For amelioration of which among the following soils is Lime used?

(A) Alkali soil (B) Saline soil

(C)Acid soil (D) All

Ans**: (C)Acid soil**

13. In terms of which among the following is salinity is measured?

(A)SAR (B) pH

(C)ESP (D)EC

Ans: **(D) EC**

14. What is the pH of saline soil?

(A)<8.5 (B) >8.5

(C)<7 (D) None

Ans: **(A)<8.5**

15. What is the pH of Alkaline soil?

(A)<8.5 (B) >8.5

(C)<7 (D) None

Ans: **(B) >8.5**

16. In terms of which among the following is Acidity is measured?

(A)SAR (B) pH

(C)ESP (D) EC

Ans: **(B) pH**

17. What an alkali soil is also called?

(A)White alkali (B) Brown alkali

(C)Black alkali (D)Saline alkali

Ans: **(C)Black alkali**

18. What a Saline soil is also called?

(A)Usar (B) Solentz

(C)Reh (D) None

Ans: **(C)Reh**

19. Identify the correct expression for calculation of total dissolved solids(mg/lt)

(a) EC(dS/m)\*60 (B) EC(dS/m)\*640

(C) EC(dS/m)\*64 (D )None of these

Ans: **(B) EC(dS/m)\*640**

20. Identify the correct expression for calculation of Osmotic potential(bars).

(a) EC(dS/m)\*(-0.36) (B) ) EC(dS/m)\*640

(C) EC(dS/m)\*60 (D ) ) EC(dS/m)\*36

Ans: **EC(dS/m)\*(-0.36)**

21. What is a substance that donates H+ to some other substances called?

(A)Base (B) Neutron

(C)Acid (D ) All

Ans: **(C)Acid**

22. What are those solutions having pH less than 7 called?

(A)Acidic (B) Saline

(C)Alkaline (D) Neutral

Ans: **(A)Acidic**

23. Which type of soil acidity is measured by soil pH?

(A)Passive acidity (B) Active acidity

(C)Total acidity (D)Exchangeable acidity

Ans: **(B) Active acidity**

24. In acid soil, due to what does Al3+cause acidity?

(A)Oxidation (B) Reduction

(C)Hydrolysis (D )Hydration

Ans:**(C)Hydrolysis**

25. Who proposed the lime potential?

(A)Beckett (B) Schofield

(C)Ramamoorthy (D)Richards

Ans: **(B) Schofield**

26. What is the CCE value of CaO?

(A)108 (B) 136

(C)179 (D )60

Ans: **(C)179**

27. What is the CCE value of Ca(OH)2?

(A) 108 (B) 136

(C) 179 (D) 60

Ans: **(B) 136**