1.Hue denotes

(A) Dominant spectrum

(B) Lightness or brightness

(C) Purity

(D) Intensity

Ans. A

2. Phosphorus uptake in alkali soil in the form of _____

(A) $H_2PO_4^-$

(B) HPO_4^{2-}

(C) PO_4^{3-}

(D) H_3PO_4

Ans. C

3.Which fertilizer produce acidity in soil

(A) Ammonium sulfate

(B) Sodium nitrate

(C) Calcium ammonium nitrate

(D) Calcium nitrate

Ans. A

4. Maximum N content found in N fertilizer

(A) Urea

(B) Anhydrous ammonia

(C) Sodium nitrate

(D) Ammonium sulphate

Ans. B

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5. Rock phosphate has P_2O_5

(A) 10-20%

(B) 20-40%

(C) 30-50 %

(D) 20-30%

Ans. B

6. The conversion factor for calculating P from P_2O_5

(A) P_2O_5 x 2.29

(B) P x 0.44

(C) P x 2.29

(D) P_2O_5 x 0.44

Ans. D

7. The phenomenon slickenside found in which soil

(A) Inceptisol

(B) Vertisol

(C) Gelisol

(D) Spodosol

Ans. B

8. Which organic fraction not soluble in both acid and alkali

(A) Fulvic

(B) Humic

(C) Humin

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(D) All of the above

Ans. C

9. In munsell colour chart hue 10 represents as _____

(A) Red

(B) Black

(C) Grey

(D) Yellow

Ans. D

10. pF scale for Field capacity is _____

(A) 2

(B) 2.5

(C) 3.5

(D) 4.5

Ans. B

11. Available water held between

(A) Saturation to wilting point

(B) Field capacity to hygroscopic coefficient

(C) Only field capacity

(D) Field capacity to wilting point

Ans. D

12. Soil colloidal particle shows the phenomena

(A) Plasticity

(B) Adhesion and cohesion

(C) Flocculation

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(D) All of the above

Ans. D

13. The central cation on silica tetrahedron is _____

(A) Al^{3+}

(B) Si^{4+}

(C) Fe^{2+}

(D) None of the above

Ans. B

14. Which plant is used for indication of permanent wilting point?

(A) Safflower

(B) Sunflower

(C) Marigold

(D) Both A and C

Ans. B

15. Mica is a type of clay mineral

(A) 1:1

(B) 2:1

(C) 2:1:1

(D) None of the above

Ans. B

16. Hydrogen bond found in which clay mineral

(A) Kaolinite

(B) Montmorillonite

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(C) Vermiculite
(D) Beidelite
Ans. A
17. Base saturation in lateritic soil
(A) < 40 %
(B) > 40%
(C) < 20%
(D) > 20%
Ans. B
18. Immobilization of sulphur occur in soil when C:S ratio is _____
(A) < 300:1
(B) > 300:1
(C) > 400:1
(D) > 200:1
Ans. C
19. Denitrification is a process of _____
(A) Oxidation
(B) Reduction
(C) Hydration
(D) Carbonation
Ans. B
20. Microorganism involve in conversion from nitrite to nitrate
(A) Nitrosomonas

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(B) Nitrobactor
(C) Pseudomonas
(D) Bacillus
Ans. B
21. Thiourea is type of fertilizer
(A) Slow release
(B) Nitrification inhibitors
(C) Natural nitrification inhibitors
(D) Artificial nitrification inhibitors
Ans. D
22. Chemical formula of thiourea is _____
(A) $CO(NH_2)_2$
(B) $SC(NH_2)_2$
(C) HCN
(D) None of the above
Ans. B
23. N content in thiourea is _____
(A) 46%
(B) 36.8%
(C) 22.5%
(D) 33%
Ans. B
24. Quantity of soil to be taken for texture analysis
(A) 10g

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(B) 20g
(C) 30g
(D) 40g
Ans. B
25. The K_2O content in Illite varied between
(A) 6 to 10%
(B) 2 to 4%
(C) 10 to 15%
(D) 33%
Ans. A
26. The microorganism lies below < 10°C is called

(A) Psychrophiles
(B) Mesophiles
(C) Thermophiles
(D) None of the above
Ans. A
27. Thermophiles organism lies in temperature
(A) > 45°C
(B) > 25°C
(C) < 45°C
(D) < 25°C
Ans.A
28. Optimum temperature for mesophile
(A) 10-20°C

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(B) 20-40°C
(C) 40-60°C
(D) 15-20°C
Ans. B
29. Which organism derive their energy from oxidation of complex organic compound
(A) Heterotrophs
(B) Autotrophs
(C) Chemotrophs
(D) Lithotrophs
Ans. A
30. Organism utilize carbon from CO_2 for their cellular synthesis
(A) Hetrotrophs
(B) Chemotrophs
(C) Autotrophs
(D) None of the above
Ans. C
31. Most of the soil organism is _____
(A) Psychrophiles
(B) Mesophiles
(C) Thermophiles
(D) All of the above
Ans. B
32. Optimum growth of bacteria in soil

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(A) Acidic
(B) Alkali
(C) Neutral to slightly alkaline
(D) Slightly acidic to neutral
Ans. C
33. Fungi growth optimum in pH
(A) 2.5-4.5
(B) 4.5-6.5
(C) 6.5-7.5
(D) 7.5-8.5
Ans. B
34. Actinomycetes prefer which condition for their growth
(A) Slightly alkaline
(B) Alkali
(C) Acidic
(D) Neutral
Ans. A
35. Aroma of earthy smell in first shower of monsoon is due to _____
(A) Actinomycetes
(B) Bacteria
(C) Fungi
(D) None of the above
Ans. A

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36. Which genera of bacteria found maximum in soil?

(A) Azotobacter

(B) Pseudomonas

(C) Bacillus

(D) All of the above

Ans. C

37. Rhizobium is an _____ organism

(A) Hetrotrophs anaerobic

(B) Heterotrophs aerobic

(C) Autotrophs anaerobic

(D) Autotrophs aerobic

Ans. B

38. Which nutrient influence the nodule formation and nitrogen fixation in soil?

(A) pH

(B) N

(C)P

(D) All of the above

Ans. D

39. Nitrification process ceases at pH

(A) < 5

(B) < 6

(C) < 4

(D) < 7

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Ans. A

40. Denitrification mostly takes place in _____

(A) Aerobic

(B) Anaerobic

(C) Both

(D) None of the above

Ans. B

41. Nitrification rapid in _____ season

(A) Winter

(B) Rainy

(C) Summer

(D) All of the above

Ans. C

42. The peak microbial population was observed in soil generally after addition of residue

(A) 3-4 week

(B) 2-3 week

(C) 3-4 days

(D) 1-2 week

Ans. D

43. For mineralization of P optimum ratio of C:N:P should be _____

(A) 100:10:1

(B) 50:10:1

(C) 80:10:1

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(D) 30:10:1

Ans. A

44. Ammonia volatilization is purely process of _____

(A) Physical

(B) Chemical

(C) Biological

(D) None of the above

Ans. B

45. Which element suppressed Downey mildew of pear millets?

(A) Chloride

(B) Fluoride

(C) Bromide

(D) Lithium

Ans. A

46. Improper development of wheat inflorescence is due to deficiency of _____

(A) Molybdenum

(B) Boron

(C) Calcium

(D) Magnesium

Ans. B

47. Organic matter obtained

(A) OC x 1.724

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(B) OC x 2.24
(C) OC x 1.55
(D) OC x 1.64
Ans. A
48. Saturated hydraulic conductivity is measured by _____
(A) Pycnometer
(B) Tensiometer
(C) Amoozemeter
(D) Hydrometer
Ans. C
49. Hydraulic conductivity is found to decrease in the following order
(A) K soil > Ca – soil > Na – soil
(B) Na – soil > K – soil > Ca – soil
(C) Ca – soil < K – soil < Na – soil
(D) Ca – soil > K – soil > Na – soil
Ans. D
50. Which chemical compound is used for improve soil aeration, infiltration and water holding capacity of soil
(A) Jalshakti
(B) Fentachlore
(C) Hydrotech

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(D) None of the above

Ans. A

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