

- ① which is not a subsurface endopedons.
 ① Natric ② Calcic ③ Spodic ④ ~~Histic~~
- ② Recently developed soil order have^{no} soil horizon ① Entis₀
- ③ scale map of coastal map $\rightarrow$ 1:5000-8000
- ④ Primary colours for Spectrum Band: Red, green, blue
- ⑤ full form of GPS - Global Positioning System
- ⑥ not relative to Decussate - ① Zonal ② Azonal
 ③ intrazonal ④ Intereazonal
- ⑦ complete the Jenny soil formation equation

$$S = f(C, b, r, p, t)$$
 time
- ⑧ Inherent soil layer - ① crust ② metal ③ ~~core~~
- ⑨ total % of sandstone and limestone in Earth crust
 $15 + 7 = 22\%$
- ⑩ whole Earth crust Igneous Rocks = 95%
- ⑪ which nutrient determine by mass spectrometry
 ① N ② ~~P~~ ③ K, ④ S
- ⑫ Lambert beer law related to
~~AAS~~ ② MS ③ Gas chromatograph ④ film photo
- ⑬ which nutrient related to water
 ① N ② P ③ ~~K~~, ④ S
- ⑭ which instrument we use for Pb determination/dms
- ⑮ nitrate $\rightarrow$ metemoglobin
- ⑯ Hg toxicity $\rightarrow$ minimization
- ⑰ one mole of N₂ fixation $\rightarrow$ 16 ATP

- 18) which is not related to suborder
- (A) wetness (2) genetic homogeneity
 (C) parent material ~~(3) diagnostic horizon~~
- 19) How to 1-l. Urea solution for 1m^3 for hydroponic - How much ~~water~~ ^{urea} need
- (1) 10 kg (2) 0.1 kg (3) 100 kg (4) 1000 kg
- 20) which also help to p fixation and Zn fixation
- (1) zincate (2) Spheloxide (3)
- 21) Arsenic which form is harmful
- (1) Arsenite (2) Arsenate (3) Arsenic
- 22) Generally ~~pd~~ ~~patch~~ density is units
- ~~(1) mg m^3~~
- 23) for micronutrient determination
- ~~(1) 0.005 M DTPA pH 7.3~~
 (2) 0.05 M pH 3.7
 (3) —————
- 25) saline soil pH 7.2
- 26) which microorganism found in saline soil
- (1) ~~Archaea~~ (2) Actinomycetes (3) Fungi (4) Alga
- 27) which microorganism found low in Rhizosphere
- (1) Actinomycetes (2) fungi (3) Bacteria (4) Alga

- (28) which Actinomycete help in VAM
 (1) framuel (2) Acetomycete (3) Basillus (4) phrus
- (29) pyroxene is example of ~~silicate~~ ~~thosilicate~~
- (30) Cation Absorption capacity maximum of
 (1) .
- (31) Sand and silt is
 (1) primary mineral (2) secondary mineral (3)
- (32) finely foliated or laminated rock ~~schist~~
 (1) gneiss (2) marble
- (33) Natural Anger → peds
- (34) Active factor (1) climate (2) Biosphere
- (35) main limitation of stock law
 (1) particle shape & size (2) gravity of particle
 (2) temperature constant
- (36) different size of soil mineral is called
 (1) Seperate (2) texture (3) Soil particle (4) stone
- (37) 4- 0.7 mm size is
~~(1) gravel~~ (2) cobble (3) Stone (4) Boulder
- (38) which is not true to about ~~the~~ micropore
 (1) water retaining ~~(2) water contact~~
 (3) capillary rise (4) $< 0.06 \text{ mm}$
- (39) gases are mostly move in soil through
 (1) mass flow (2) diffusion

- (40) most soil have plasticity $\rightarrow$ friable
- (41) available water f.c. to p.w.p
- (42) rainoff is mesorbed by
 (1) leachy (2) infiltration
 (3) Seepage (4) percolatees
- (43) maximum leaching in which potential $< 0.33K_s$ - (2)
- (44) Potential Acidity measured by
 (1) cauch (2) Tea (3) Bachm
- (45) The moisture content at which maximum compaction occurs is called proctor moisture content
- (46) Source of Respiration is during Denitrification
 (1) Dehydrogenase (2) — —
- (47) Organic matter is very effective when it is applied in
 (1) wet soil (2) dry soil
- (48) statement (1) fertile soil are Productive
 (2) Poor soil fertility is a factor
- (49) Percolation high in sandy soil due to ---
- (50) which ~~test~~ colour soil warm rapidly
 (1) darker colour warm faster
- (51) critical Range of ODR
- (52) when K is more fixed when coordination number
 (1) 14 (2) 12 (3) 15 (4) 18

53 clay is flesh

54 Fe deficiency ① Intervascular chlorosis
② young leaf

55 which till of cauliflower $\rightarrow$ mo

56 which nutrient direct effect on nitrification $\rightarrow$ mo

57 A value is given by deery and freed

58 unit less central tendency measure Range

59 commensalism ① ~~both benefit not obligatory~~
+ 0

60 5, 7, 6, 7, 4, 9 - mode, median

61 obligate anaerobic N_2 fixer $\rightarrow$ Clostridium
not affected by infect value $\rightarrow$ ① geometric mean

62 Hue - dominant spectrum

63 phyto confert in ① insito ② phosphorus Acid

64 in which method use dielectric constant

65 ① TDR ② neutron scattering ③ hygroscopy

66 if a soil oven dry weight 50 gm add 25 ml water $\rightarrow$ volumetric water content is

① 25% ② 50% ③ 75%

67 Boron deficient soil in india

① 23% ② 33% ③ 43% ④ 53%

- (68) laterization → Removal silicey
- (69) Bauxite behaves as
~~(1) Lawd Acid~~ (2) lamu base
 (3) Bauxite Acid (4) Bauxite base
- (70) Highest flocculation by
 (1) Ca (2) Mg (3) Na
- (71) Na → Dispersion
- (72) Temperatures for Hyperthermia (1) 0-5
 (2) 5-35 (3) 35-45 (4) 45-55
- (73) Thermal diffusivity is dependent on
 (1) soil moisture (2) soil contact
- (74) In sandy soil moisture character (cm)
 (1) 0-30 cm (2) 30-90 (3) 100
- (75) When weather products increase is High
 (1) fertilizer applied is summer
 (2) " " " " dry condit
 (3) 0.1m " " in summer
 (4) " " " " dry condit
- (76) Polyphenols
- (77) Which factor of legume to justify ^{Rhizobium} ~~plant~~ ^{in N₂ fixation}
 (1) node (2) root gene (3) lacte

79 movement of water flowing through the Saturated Soil --- $V = Kf$

80 Organic matter acidity due to $-COOH$ in which Ratio

① 3w:1 ② u:m 3

81 Effective E_{ce} --- Base + ① Alt and Ht

82 In freundlich Isotherm

$$X = K C^n \quad (N < 1)$$

83 If splash erosion happens when high of ~~Sheet~~ Rain dr

① 0.3 m ② 0.7 m ③ 0.7 m

84 ग्रन कोरी अभिविद्या Antropy

85 Δn is ---

87 The K appears to act as buffer

88 convey effects of drip injury
① Pot. ② low-l.

89 Retention of pH and Eh --- 0.059 pH

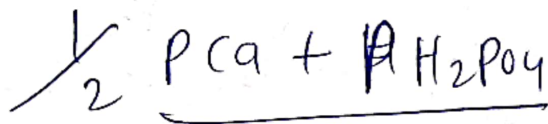
90 Sumbert's condition Redox potential - 20 mV

91 TSP use to which pH to make basicity

① 3 ② 4 ③ 5 7.5

92 if pH is 3.2 to 6.5 How buffer capacity use

93 Phosphorylation



94 if E_4/E_6 Ratio will be High that is
 (A) Aromatic (B) ~~Aliphatic~~

95 if 4000 Kg/Acre product How much per hectare
10000 Kg/ha

96 Application Rate 100kg/Acre How much for
 5000m² = 125 Kg

97 Fe, 2mg in 10L to 5L mixture?

98 Temp for NH₃ formation in Herbimul prep
 (1) 400 - 450°C

99 Place of dinitrification

(1) Bacterial (2)

100 Azospirillum less work with which
 family

(1) Gram (2) Legumin (3) ~~Roseace~~

101 colour of Gram negative staining
Pink Red

112 f Co Nitrogen fixation
 Acre

103 Azobacteria were discovered by J. Beijerinck

104 P n p R

105 which microorganism is tolerant to drought (1) ammonifier (2) denitrifier

(3) Nitrifier (4) PSB

106 sequence of pedogenic process
(1) Eluviation $\rightarrow$ illuviation

107 SiO_2/O_2 silica sequestration ratio
from _____ to _____ (reference?)

108 highest silicon sequestration Redox

(1) Oxidation (2) Reduction

109 The Recharging zone for increasing water table
which zone is highly important?

(1) vadose zone (2) capillary (3) Root zone

110 what is exsivity/exsivity

111 in dairy low what is L/H = Hydraulic gradient

112 out of 239 mha how much area of soil is degradable - 142 mha

113 pot culture $\rightarrow$ CRD

114 High Replicant low $\rightarrow$ error

115 which design we use for high accuracy
① CRD ② Split plot ③ LSD

116 T test we use for _____

117 if prob. 1 is 30-40/40-50% the type of soil is

① clay ② sandy ③ silty ④ all

118 soil loss exceed the rate of soil formation $\rightarrow$ Accelerate erosion

119 phytoremediation of which heavy mineral

① Cd and Ni ② W & Mg

③ Ca & Ni _____

120 Legend _____

121 if deficiency of one nutrient than after added yield is maximum

but reduce the concentration of other
① mechanism A stress effect

122 colourless, smooth, fuzzy colonies
of ① fungus ② Bacteria ③ yeast

123 eutrophication has not correct
① Enrichment of nitrate
② Reduce O_2
③ afflux algae and weed
④ —————

124 carbon sequestration is maximum in
which soil
① sand ② clay ③ silt, ④ loam