

Best suited for fruiting → oxisols
 Potential -11- → Lakite

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 JRF Mock Test - II

1. According to ICAR the total Agro climatic zone in India 08
2. According to planning commission Agro climatic zone in India 15 Agro ecological zones
3. According to planning commission NBSS & LUP 21
4. Expend NBSS & LUP Natⁿ Bureau of Soil Survey & Land Use Planning & Located in Bangalore
5. Double cropping in Mango is practical in Kanyakumari, TN (Be of climate water avail.)
6. Type of soil suited for horti. crops is Red soils (depth, good drainage, nutrient rich, Fe)
7. Red soils are also known as Alfisol (Fe & Mn rich). (B, N, P, K 20% deficiency)
8. Laterite soils are also known as Ustisols → (Mo & B deficiency)
9. Red soil are rich in Fe & Mn elements
10. Black soils are also known as Vertisols (long duration crops)
11. Best quality grapes for domestic market are produced in Sangli & Solapur districts of MH.
12. Give an example for calcifuge crop Banana, Tea
13. In acid soils, what is used as P & Ca source Rock phosphate
14. In sodicity which salt is dominant ~~Na~~ Carbonates (which is not suitable H₂O) bicarbonates
15. Example for highly salt tolerant fruit crop Ber, date, Jamun
16. Chemical formula of SSP is Na₂CaCa(H₂OPO₄)₂ · H₂O → 2nd commercial material for single fertilizer, medium
17. While planning of orchard, area under roads & buildings should not exceed 10 % of total area.
18. Cl element containing fertilizers are toxic to grapes, Mango, hence instead of MOP, K₂SO₄ fertilizer is used source of K.
19. Very simple system of orchard establishment is Square system
20. Hexagonal system is also known as Equilateral Δⁿ system
21. The seventh tree in hexagonal system is known as Septule
22. Highest plant density is seen under Hexagonal system of planting. Quincunx
23. Purpose of planning filler plant is Extra income
24. Main objective of contour system to check soil erosion & moisture conservation
25. Compare square system, hexagonal system occupies % & quincunx system occupies 15%, 1 1/2 more plants.
26. Terrace system is an extension of contour system
27. Every 2nd tree is used as polliniser in every 3rd row of orchard.
28. Quincunx system is also known as Diagonal System
29. Removal of all the wood offer leaving 7-10 cm thick stub all over the tree is known as Deholing (Last commercial bearing)
30. The term "June Drop" refers to Apple, Pear fruit crop.
31. Modified leader system of training is commercially adopted for fruit cultivation
32. Open vase system of training is exclusively used for peach (As sunlight is trailing factor)
33. Root pruning is done to induce gub seedling, ghy.

DAP - yeast nutrient & lime water

S-11-127
 18-21%
 16-20%
 pH = < 2

Hard water - Ca⁺, Na⁺ less

34. The process of absorption, translocation and assimilation of nutrients by the plant is known as Nutrition (Mineral nutrition)
- X 35. In Mango, pruning is done in Aug (S.E), where as dehorning is done in Mar (N.E)
- ✓ 36. 96% of plant biomass constituted by C (45%) H (6%) & O (45%) elements.
- ✓ 37. Highly immobile elements in plants Ca & B
- ✓ 38. P element is known as energy currency.
- ✓ 39. Plants absorb the P in the forms of H₂PO₄⁻ & H₂P₆O₄⁻
- ✓ 40. Mineral source of Boron is Borax
- X 41. Plants absorb Boron in the forms of H₂BO₃⁻, HBO₃⁻ & H₂BO
- ✓ 42. In plant parts, P is found mostly in flw, fruit, & seeds parts of plants.
- ✓ 43. Major role of the Fe in plants is Photosynthesis (chlorophyll formation)
- ✓ 44. B element is required to increase resistance in the plant
- ✓ 45. Sulphur containing amino acids are Methionine, cysteine & Cysteine
- ✓ 46. Cu element is responsible for biosynthesis and activity of ethylene in fruits.
- X 47. Gum pockets at and nodes & twigs is system of Mn (Cu) element deficiency
- ✓ 48. Little leaf in plants is due to deficiency of Zn
- ✓ 49. The element involved in tryptophan synthesis is Zn
- ✓ 50. Pollen tube growth is affected by B element
- ✓ 51. NPK content in vermicompost is 0.25, 0.2, 0.5 3, 1, 1.5
- ✓ 52. Urea contains 46 % of nitrogen.
- ✓ 53. NPK content in FYM is 0.25, 0.2, 0.5
- NA 54. Highly concentrated form of nitrogen fertilizer is Ammonium anhydrous (84%)
- ✓ 55. An example for concentrated organic manure is oil cake
- ✓ 56. Free living nitrogen fixer is Azotobacter
- ✓ 57. Index tissue in Banana is 3rd leaf petiole for nutrient sampling.
- ✓ 58. Index tissue in papaya is 5th leaf for nutrient sampling.
- ✓ 59. Index tissue in pineapple is B-leaf stage for nutrient sampling.
- ✓ 60. Al & Fe, Mn elements is dominant in acidic soils.
- ✓ 61. Lime is applied where the soils are acidic
- ✓ 62. Gypsum is applied when soils are alkaline.
- ✓ 63. Saline soils can be reclaimed by Gypsum, leaching & Flooding
- ✓ 64. Garcinia is propagated through Seeds & because of Parthenogenesis
- ✓ 65. An example for pre emergent weedicide is Pendimethaline
- ✓ 66. An example for post emergent weedicide is 2,4-D
- X 67. Crops having the phenomenon of apomixis can be propagated through Vegetative Seed
- ✓ 68. Ploresis is a seed borne virus in citrus.

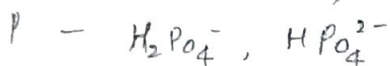
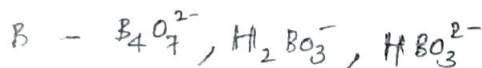
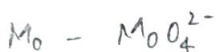
Papaya
Phalsa
Mango

69.	Genetical uniform material obtained by single individual plant is known as <u>clone</u>
70.	European Grapes (<i>Vitis vinifera</i>) are susceptible to <u>Fla beetle</u> <small>pest phytophaga</small>
71.	The seed in which internal germination barriers are absent is known <u>Quiescent</u>
72.	The chemical <u>Abscissic acid</u> is responsible for dormancy in plants.
73.	Temperature of scarification is <u>77-100°C</u>
74.	Temperature of stratification is <u>1-5°C</u>
X 75.	Stratification can be easily achieved (in lab condition) through <u>Cryopreservation</u> <small>Technique</small>
76.	The rooting hormone is <u>IBA</u>
77.	Dormancy breaking hormone is <u>GA</u>
78.	Ripening hormone is <u>Ethylene</u>
X 79.	Seeds are generally sown at a depth of <u>3-4</u> times of the seed size.
80.	In cryopreservation, temperature of liquid N is <u>-196°C</u>
81.	In cryopreservation, temperature of liquid CO ₂ is <u>-12°C</u>
82.	Commonly used two cryoprotectants are <u>Glycerol & DMSO</u>
83.	Commercial method of propagation in strawberry <u>runners</u>
84.	<u>Sword</u> type of sucker are used in Banana propagation.
85.	Rasp berry & Black berry are propagated by <u>Tip</u> layering.
86.	Serpentine layering is practiced in <u>Muscadine</u> grapes.
87.	Air layering is also known as <u>At Gotee, Marcottage</u> <small>gnana</small>
88.	Mound layering is commercially practiced in <u>Apple & Pomegranate</u> fruit crops.
89.	A novel technique for rooting semi hard wood cuttings is <u>Bottom Heat technique</u> (20)
X 90.	Usually breadfruits are propagated through <u>Seed & Seed root cutting</u>
91.	Commercial method of propagation in Black berry & Raspberry <u>root cutting</u>
92.	Inarching is employed to rejuvenate old orchards which is known as <u>Adjuvant grafting</u>
93.	Why not grafting is practiced in coconut because of <u>absence of cambium</u>
94.	Epicotyl & stone grafting are commercially used at <u>Konkan</u> region of maharstra.
95.	Double working is done to overcome <u>incompatibility</u>
96.	Temperature of bottom heating technique is <u>+30</u>
97.	Commercial method of propagation of Mango in NI <u>Veneer grafting</u>
98.	Type of budding used in High rainfall areas <u>Inverted T budding</u>
X 99.	Shoot tip culture will enables <u>Apomictic</u> type of plants in Papaya (Female)
X 100.	Determinate type of tomato variety Released from IHR, <u>Arka Sweet Gaurav</u> <small>Maharashtra</small>
101.	Indeterminate type of tomato variety Released from IARI. <u>Pusa Ruby</u>
102.	Fruit colour of Arka Shirish (Brinjal) is <u>Green</u>
X 103.	The quantity of fruits required to produce 1 kg tomato seed <u>705-150 kg</u> (150-210 kg)
104.	Isolation distance of cucurbits for <u>certified seed</u> production <u>500 m</u> .
105.	Okra is <u>open cross</u> pollinated crop.

- ✓ 106 King of North is variety of Knot - knot vegetable crop.
- ✓ 107 Arka Sheetal is variety of Long ^{water} vegetable crop (melon).
- ✓ 108 Onion is long day plant, but for seed production Day neutral type.
- ✓ 109 Bulb to Seed method is commonly used for seed production of onion.
- ✓ 110 Expand ISTA International Seed Testing Association.
- ✓ 111 Tag colour of Breeder seed is Golden Yellow
- ✓ 112 Tag colour of Foundation seed is White
- ✓ 113 Tag colour of certified seed is Amul Blue
- ✓ 114 Tag colour of truthfully label seed is Opel Green
- ✓ 115 Citrus Fruit crop is known as micro nutrient lover.
- ✓ 116 Tongue grafting is a modified method of Wedge grafting
- ✓ 117 Double working is chiefly practiced in Apple Pear fruit crop.
- ✓ 118 Beurre Hardy, old home, winkfield, etc are used as Inter stock
- ✓ 119 Marcottage refers to Air layering
- ✓ 120 Stone grafting is also called Epicotyl Grafting
- ✓ 121 Onion, garlic, daffodil etc having Tunicate type of bulbs
- X 122 Tuber is a modified Stem Root stem
- ✓ 123 Crotch refers to angle b/w main stem & branches
- ✓ 124 Open centre system is not suitable where Snow fall, frost is common.
- X 125 Espalier system of training commonly protected for Grape ^{apple} and Pear fruit crops.
- X 126 The technique Tatura trellies was developed by Oliver David chalmers & Ben ^{Ben} ^{Ben}
- ✓ 127 Wind breaks are commonly planted in NW side of orchard

Match the following

- | | |
|-------------------------|------------------------|
| ✓ 1. Sexual propagation | a) Ber, mulberry 3 |
| 2. Asexual propagation | b) Mitosis 2 |
| 3. Ring budding | c) Inter stock 5 |
| ✓ 4. Inarching | d) Meiosis 1 |
| 5. Double working | e) Attached grafting 4 |



Two arm trellis - passion fruit