

53. Optimum moisture content allowed to store parchment coffee ??
54. Unfermented tea – Green tea, Oolong tea, Brown tea, Lemon tea ??
55. Organic cultivation doesnot include which one of the following ---
56. Logo for export quality spice ??
57. Bio-control agent used to control foot rot of black pepper ??
58. Under organic cultivation which process of disinfection will be used – Soil solarisation
59. Main constituent of Rose oil – Eugenol, Geraniol, Citronellol, neral
60. Which flower is a sign for 'Thoughts' – Pansy
61. Annual suitable for shady location – Salvia
62. No pinch no stake varieties belongs to which group – Chrysanthemum
63. Annual native to India – Gomphrena
64. Yellow regan is a mutant of Snow ball
65. Country with highest area under green houses in ornamentals – Netherlands
66. Inflorescence of Anthurium – Spadix
67. Harvesting stage for Alstroemeria – when 2 Florets opened
68. Secondary color – Green
69. Flower insensitive to ethylene – Gypsophila??
70. Cut flower tolerant to chlorine in vase water – Gerbera
71. Greasy streak in foliage of tuberose is due to Nematode
72. False Bird of paradise is Heliconia
73. The one which doesn't belongs to palm group – Cycas
74. Damask rose – *R.phoenica* X *R. gallica*
75. 4 Petal rose – *R. seriecia*
76. Point mutation means – Change in Single nucleotide bp
77. Inheritance of colour pigment in rose is governed by Additive gene action
78. Acetyl Salicylic acid is a - Antitranspirant, Germicide, Anti- Ethylene agent, acidifier ?
79. Monopodial Orchid – Arachnis
80. Fluorine injury is common in Gladiolus
81. Origin of carnation – Spain
82. Miniature Variety of carnation – Pico
83. Chrysanthemum is a Greek word meaning Golden flower
84. Largest genera of Orchids – Bulbophyllum

- ..
85. Cross pollination in Anthurium is due to **Protogyny**
  86. Sleepiness in carnation is due to **Ethylene**
  87. Stenting is an operation in **Rose**
  88. For blue rose Gene is taken from **Pansy**
  89. Freesia is propagated by **Corms**
  90. *In vitro* propagation of citrus for virus free plants the explant used is **Shoot tip**
  91. Perishables transported by means of **Airways**
  92. Sauer kraut from **Cabbage**
  93. Spray of which growth regulator prevents the beta- carotene formation in root of carrot??
  94. Enzyme involved in germination of seed - **Alpha – Amylase**
  95. Cause of fruit cracking in cherry
  96. Self fruitful variety of cherry -**stella**
  97. The fruit seed which loose its viability immediately after extraction **Citrus**
  98. Aim of Pre – cooling – **To remove Field heat**
  99. Hypobaric storage is also called **Low pressure storage**
    1. Cause of skin cracking in Litchi ?
    2. Rutaceae family – **Bael**
    3. Budding in which wood along with bark is taken – **Patch budding**
    4. Fruit crop originated in India – **Jack fruit, Bael**
    5. Banana sps which is drought hardy and resistant to disease ----?
    6. Swingle classification of banana ?
    7. Fruit with Gametophytic SI ?
    8. Citron is **monoembryonic**
    9. Good mother palm of coconut should have **30- 40** leaves
    10. Favorable condition for female flower induction in cucurbits ?
    11. The physiological method to detect harvest maturity is Heat units ?
  12. Under exploited vegetable looks similar to white Carrot – Turnip, Parsnip, celery, Celeriac ?
  13. Regular bearing in mango is possible with the use of GR –**PP333**
  14. PCR – **To amplify the segments of DNA**
  15. Khirmi is a root stock of **Sapota**
  16. 70 % Foreign exchange is achieved through the export of **Onion**

17. Starch to sugar conversion is not desirable in **Potato**
18. Commonly grown variety of spinach in India – Pusa Jyothi??
19. Yellow pigment in onion is due to **Quercetin**
20. Opt temp required for bulb development in Onion ??
21. Growth regulator used to inhibit sprouting in onion ??
22. Principle of Zero Energy Cool Chamber – **Low Temp, High humidity**
23. Precise and controlled storage is possible in CAS, MAS, Hypobaric storage, None ??
24. Surface netting is the harvest index in **Musk melon**
25. APEDA -1985
26. Harvesting stage of carnation – **Paint brush stage**
27. Quickest method of lawn establishment – **Turfing**
28. Best method of drying the flowers freeze drying ?
29. Fillers in Japanese arrangement is called **Jushi**
30. Beneficial association of litchi with **Mycorrhiza**
31. Low temperature treatment for seed germination is called **Stratification**
32. Guava bears fruits on Old season, New season, Spur ??
33. Prunes are the dried products of Peach, Apricot ??
34. Low chilling variety of peach ??
35. In Apple, pigmentation is due to the exposure of fruits to UV light
36. Waxing of fruits reduces Transpiration
37. High Auxin : CK induces root
38. utili
39. Virus free apple root stock – **EMLA**
40. Albinism is a physiological disorder in Strawberry
41. Pruning method in which removal of low hanging branches is Skirting
42. Training system in peach
43. Repair grafting is also called
44. Pusa Arunika, A mango variety is a cross between
45. Kinnow is a cross between
46. Flower bud differentiation of mango in NI plains in the month of ??
47. Non Spur apple variety
48. Clonal propagation in apple is done through – gootte, mound layering, Tongue grafting
49. Sporophytic self incompatibility is seen in Broccoli, lima bean, Wing bean,...

50. The kale which is utilized for human consumption Drum Head kale ??
51. Capitulum – Artichoke, Basella, Spinach, ??
52. The seed which is utilized for further utilization when ever needed – Carry over seed
53. Isolation distance for cauliflower foundation seed- 1600 m
54. Blanching common operation in celery??
55. Pig weed is the common name of Amaranth
56. VAM is a Fungi
57. Notification of the varieties is the responsibility of State Govt, Central Govt, State Univ, Central committee ??
58. Seed law enforcement by NSC, Seed inspector, Seed analyst, ??
59. Pruning method in which tree is cut back up to bark leaving small stump and no allowance of shoots further to grow – heading back or back pruning ??
60. Cryo preservation temp -196°C
61. Dwarfing and polyploidy variety of mango – vellaikulumban
62. Variety of acid lime which is polyembryonic, bacterial canker resistant, and developed through inter specific hybridization – pramalini, jai dev, Sai sharbathi, Vikram ??
63. Grape variety shweta seedless is a cross between ??
64. Vernalisation treatment for perennials should be given to Shoot tips, Root tips, embryo, seed ??
65. Browning of cut apple is due to PPO
66. Seeds that have undergone maturation drying – Orthodox seed
67. Process of development of haploid plants from male gametophyte is called Androgenesis
68. Highest BC ratio with Bower system of training in grape
69. Banana – climacteric fruit
70. Type of incompatibility in case of Bartlett pear and quince rootstock – Localised
71. Pollination occurs without opening of flowers is called Cleistogamy
72. Definition of cloning vector
73. Sun Up is a transgenic var of Papaya
74. Canning is also called Appertisation
75. Syneresis in food products is due to
76. Oxalic acid content in amaranth ---mg/g
77. Duodichogamy – chestnut
78. Example for monocot - cassava

POMOLOGY-NET- 2013 (October) Memory Based Questions

1. Seed maturation takes place in which phase - lag, 1<sup>st</sup> phase, 2<sup>nd</sup> phase or after ripening
2. Which PGR for shoot induction in cell suspension of kiwi - BA, Thiadizuran, IAA, NAA
3. Temperature requirement for storage of green mature mango in CA storage - 7, 10, 13°C
4. Concentration of O<sub>2</sub> in apple CAS? - 2-4%
5. Maximum CO<sub>2</sub> concentration tolerated by crops in CAS - 3, 5, 10, 15%
6. Gas which is not a green house gas - O<sub>2</sub>, CO, CO<sub>2</sub>, water vapour, methane,
7. Fruit where cell division continues till maturity - Avocado
8. Blue colour of banana is due to the deficiency of which element - Cu, Mn, K
9. Calcifuge crop - plant which does not thrive well in soil rich in lime or chalk- Litchi and  
**Banana**
10. Dwarfing in mango is not related with - High Bark to wood ratio or high phloem to xylem ratio, high apical tannin content
11. Addition of which element even in minute quantity is poisonous?
12. HYTEC culture in apple is a hybrid between? - Slender spindle, vertical axis and trellis system
13. Tetrapacks - storage - 6 months
14. Uniform ripening in pineapple by which GR - Ethephone
15. Hazari is a cv. of - jackfruit
16. Bagwa is a variety of - pomegranate
17. Gene % in mango is - 0.91pg
18. Chromosome no. of *Vitis rotundifolia* - 40
19. Pruning in grapes is done at which month NI- Dec- Jan,
20. Replacement pruning is done in - old spur
21. Requirement of GA<sub>3</sub> for preparing 5l of 20ppm solution - 100mg
22. Sugar: acid is the maturity index of which crop - Citrus, Starch index- apple
23. Not scab free apple variety is - Michal- Scab resistance are- prima, pricella, jonafree, liberty, *M. floribunda*, *M. bucketjacki*.
24. Grapefruit is the cross of sweet orange X Pomello,
25. Fuji is the cross of - Red Delicious X Ralls Janet
26. Tissue cultured banana in fluorescent light is maintained at what temperature - 20-26° C
27. Bud rootstock of apple was developed by - Soviet Union
28. EMLA is resistant to - Ans. Virus released from East malling lambert Aston, England
29. Vivipary is found in which fruit crop - mangosteen, citrus (Grape fruit), sapota cheery?
30. Polyembryony in mango is controlled by - Ans. single dominant gene, In citrus- recessive gene, where as Nucellar embryony is controlled by dominant single gene

31. Gene in transgenic papaya - Ans. npt II (Generally NPTII (Neomycine Phospho Transferase) and GUS genes are used as a binary vector where CP gene has been introduced)
32. WTO set up in - 1995- geneva
33. Which is not applicable for PPVER - Ans. industrial applicability
34. Condition which is not necessary for pollen - they should be of the same age
35. 1<sup>st</sup> successful plant rejuvenation in which crop - mango, ber, sapota
36. Ber plant which has been rejuvenated in which state - Rajasthan
37. How many biodiversity hotspots during 2008- 22
38. Maturity index of pineapple - how much TSS and acidity?
39. Seeds of which crop requires after ripening - **walnut and Chest nut**
40. Bee activity hampered below which temperature- **below 13 and above 35**
41. Concentration of GA<sub>3</sub> required for thinning at full bloom stage of grapes- 40- 50 ppm?
42. Not edible stage for date fruit - Gandora or Kimri (unripe stage)
43. GA series upto - 121, 100, 80 or 150 nos.?
44. Maximum drip irrigated state? Ans. Maharashtra, sprinkler- haryana
45. AEZ for litchi - Ans. Uttaranchal
46. GI has not been registered for which crop - apple, guava (Allahabad surkha), mango (Gir kesar, Laxman Bhog, Kirsapati (himsagar), Fazli, Malihabad Dashehari, Appemidi mango)?
47. % Water saving in poly tunnels?
48. Maximum area under protected cultivation - vegetables > floriculture > fruit nursery?
49. NPC was set up in which year?
50. Food safety and Standard Act - 2006
51. Training system for acid lime where it is headed back at 1m above the ground level
52. Apple training system on seedling rootstock - central leader, modified leader, spindle bush?
53. Which shaped training in apple for easy mechanical harvesting - Lincoln, tatura trellis, French axe? - Ans. Lincoln
54. Most of the cultivated banana are - triploid
55. Botanically litchi fruit is a - nut
56. Metal present in chlorophyll - Mg
57. Non introduced apple variety - Ambri and Rymer
58. Ovaries of parthenocarpic fruits are naturally rich in - gibberellins
59. VAM has association with - litchi
60. Most extensively studied GA- GA<sub>3</sub>
61. Largest producer of papaya and Sapota- India
62. Dioecious among the following is- pistachionut
63. Which crop is temperate among the following - persimmon

64. Which crop is not tropical among the following - Litchi
65. Which crop is tropical among the following - banana
66. Sugars present in strawberry – fructose and glucose
67. Transgenic papaya variety is - Rainbow
68. Cross of atemoya - *A. squamosa* and *A. cherimola*
69. Thickness of polythene film for single layer - 200 $\mu$
70. HDP of kinnow on which rootstock - Troyer orange
71. King (*Citrus nobilis*) is a cross between
72. Most important banana cv. internationally - Ans. Gross Michel (highly traded)
73.  $\frac{1}{2}$  to  $\frac{3}{4}$  colour break stage is the maturity index of which fruit crop- mango, guava, Ber  
Papaya- ALL
74. Foster is the variety of - grapefruit (Limb sport from Walter)
75. Oldest fruit known to mankind - datepalm
76. Arab saying of 'its head is in the fire of the sky and feet in running water' - datepalm
77. The first monograph was written for which fruit - litchi
78. Effect of low temperature - chilling injury, collar injury, black heart, all of the above
79. Fruit crop where dichogamy is found - custard apple
80. Female flower in the morning, male in the evening - avocado (PDSO)
81. Jackfruit takes how many days from flowering to maturity - 120- 140 days
82. Mango takes how many days from flowering to maturity - 90-100 days
83. Chromosome number of jamun - 40
84. Red colour of jelly is due to - charring of sugar
85. Most common auxin is -IAA
86. Low temperature treatment for flowering is - vernalisation
87. Which of the following is not a true fruit - apple
88. Revolution of fruit crop is - Golden Revolution (2012)
89. Sex in papaya is controlled by - single gene with 3 alleles
90. The technique of dehorning was developed at - GBPUAT, Guava Meadow Orchard- CISH
91. Highest fruit producing state AP > MH > UP
92. Spur series of apple released from
93. %area under protected cultivation in India- 0.23%
94. Two genes have been incorporated in litchi to resistance against... alkanity and cracking.
95. Spacing of cashewnut grafted at 0.75m above ground level
96. Dwarfing rootstock of cherry - Colt
97. Amount of solar radiation received in the arid zone- (450 - 500 cal per cm<sup>2</sup> / day)

- 25
98. Square shaped and flower induction in pineapple is achieved by - BOA, BOH, ethephone, ethrel?
  99. Dry matter contents of plants taking nutrients from the earth's soil is ?
  100. Radiation amount received in arid region of India is 450 - 500 cal per cm<sup>2</sup> day)
  101. Historical ber is maintained in - Rajasthan, Punjab (Amritsar), Bihar
  102. Quality of mandarin is reduced if roostock is - Poncirus., Rangpur lime, **Rough orange**
  103. Flowering in apple, pear in young trees is inhibited due to production of Auxin, ethylene, GA<sub>3</sub>...ABA.
  104. Most common rooting media is - IBA.
  105. Wind speed that greenhouses can tolerate is 75km/hr
  106. Botanically pomegranate- Balusta
  107. Pineapple anthesis time- 6-9 am
  108. Guava 3x= 33
  109. KMS requirement for fruit juices- 350 ppm
  110. Sweetest variety of mango- Chausa
  111. Triploid growth curve- Kiwi fruit
  112. Which pigment is naturally present in pineapple- Carotene
  113. Non climacteric fruit : litchi
  114. Spur type cultivars are 30 % less growth than standard type in apple
  115. Periclinal chimaras are highly constant in vegetative propagated plants
  116. The mango crop got highest GI in India

- Biodiversity Centre  
 - Agricultural Export Zones  
 of fruit crops  
 - NPC - Pg 4 of Set 1

✓ Anil Rana

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