

Date- 11-10-2015

SANSKAR

Vegetable science

IARI, New Delhi

- Pot herbs are generally..... Season vegetables
a) Summer b) Warm **(c) Cool** d) Autumn
- Weed more problematic in beet root
a. Palak **(b) Pigweed** c. Cyprus d. Orobanche *c. album (pigweed, batwari)*
- BBF (Broad Bed Furrow) is related to which crop
a. Tomato b. Cucumber **(c) Onion** d. Watermelon
- Chromosome no. of drumstick
a. $2n = 18$ **(b) $2n = 28$** c. $2n = 42$ d. $2n = 48$
- Powdery mildew resistance in garden pea is governed by
(a) Single recessive gene b. Double recessive gene c. Dominant d. Polygenes
- Amaranthus $x =$
(a) 16 or 17 b. 15 or 16 c. 14 or 15 d. 12 or 14
- Amaranthus is -----
a. Tribasic b. Monobasic c. Tetrabasic **(d) Dibasic** *$x = 16, y = 17, 2n = 32, 2n = 34$ so dibas*
- Thickness of mulching sheet
(a) 120 gauge b. 150 gauge c. 200 gauge d. 180 gauge
- Polythene sheet used for soil solarization is of -----
(a) 250 gauge b. 350 gauge c. 850 gauge d. 100 gauge
- ETL for DBM is -----
(a) 5 Larvae per plant b. 2 Larvae per plant c. 6 Larvae per plant d. 10 Larvae per plant
- ETL for potato aphids -----
a. 30 / 100 compound leaves b. 40 / 100 compound leaves
c. 20 / 100 compound leaves **(c)** d. 50 / 100 compound leaves
- Club root of cabbage & Black leg are problem more severe in ----- & ----- soils respectively
(a) Acidic & Basic b. Acidic & Alkaline c. heavy & Light d. Clay & Sandy
- & ----- disorder in tomato are inversely related
a. Puffiness & cracking **(b) BER & cracking** **(c) BER & Gold fleck** **(d) Puffiness & Catfacing**
DBB DBB DBB exan
- Curing temperature of potato, sweet potato & onion are ----- & ----- °C respectively
(a) 20, 29 & 38.7 b. 40, 20 & 36 c. 29, 47 & 18 d. 38.7, 20 & 29
- The genes cry-I & cry-II confers resistance to ----- & ----- pest's respectively
a. Diptera & coleopteran b. Shoot & fruit borers
(c) Lepidopteran & coleopteran d. Diptera & elepidorcen
- Which of the following is pie plant
a. Asparagus b. Celery **(c) Rhubarb** d. Watermelon
- Round type of cabbage mature
pruned ← a. Late b. Mid **(c) Early** d. Very late *Mid mature → Pencil*
- Red & yellow colour of onion is due to ----- & ----- respectively
a. Anthocyanin & kaempferol **(b) Anthocyanin & quercetin**
c. Quercetin & anthocyanin d. Anthocyanin & B-xanthin
- is resistant to cyst nematode of potato
a. Kufri chandrima b. Kufri Badsha **(c) Kufri swarna** d. Kufri surya
- Antinutritional factor in sweet potato is → *HL*
a. protease **(b) Trypsin inhibitor** c. oxalates d. HCN
- capsicum shape variety of bitter gourd
a. pusa poorvi b. Pusa rasadar c. konkan tara d. priya
- Club root of cabbage is due to
(a) Plasmodiophora brassicae b. Bacteria c. *Phoma lingam* d. Virus *→ black leg*
- Highest folic acid among the leafy vegetables is found in.....
a. Amaranthus b. Lettuce **(c) Spinach** d. Methi
- Highest oxalic acid is found in Leafy vegetable
a. Amranthus b. Lettuce **(c) Spinach** d. Methi

→ Broadbean

→ Sweet potato & spinach exceptional for cool season crop

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25. Carrot variety suitable for protected cultivation is.....
a. Pusa Nayanajyothi b. Pusa Asita c. Pusa yamadagni d. Pusa Rudhira
26. Excess of K in carrot leads to
a. Cracking b. Splitting c. Cavity spot d. Forking
27. Black carrots are rich in..... pigment
a. β -cyanin b. Lycopene c. Chlorophyll d. Anthocyanin \rightarrow Red, black, orange
28. Crucifer vegetable studied under cole crops is
a. Cabbage b. Knol-khol c. Broccoli d. Turnip
29. Fermented product of cabbage leaves is called as and is remedy against.....
a. Erisseri & Blidness b. Saurkraut & Scurry c. Sagu & Rickets d. Poi & Scurry
30. Which of the following is the shallow rooted vegetable?
a. Onion b. European small radish c. Radish d. Turnip
31. Cultivation of cucurbitaceous vegetable after..... vegetables is not profitable
a. Solanaceous fruit vegetables b. Cole vegetables c. Root vegetables d. Leguminous vegetables
32. Heat units in pea is calculated in based on
a. Vernalization temperature b. High day temperature c. Low night temperature d. Base temperature
33. Wider spacing and excessive use of fertilizer in potato may cause
a. Internal brown spot b. Black heart c. Greening d. Hollow heart
34. Which of the following cucurbit contain highest iron
a. Bitter gourd b. Bottle gourd c. Ivy gourd d. Watermelon
35. Anther dehiscence in tomato and brinjal is through and respectively
a. Longitudinal & apical pore b. Early, late c. Longitudinal, Vertical d. Longitudinal and vertical
36. Perianth type of flower are seen in..... crops
a. Root b. Cole c. Legumes d. Bulb
37. Fruit of amarathus is
a. Berry b. Drupe c. Achene d. Uricle
38. Oxalates and nitrates cause..... & in human beings
a. Nigfht blindness & Beri beri b. Rickets & Sterility c. Hyperoxalurea & Methamoglobinema
39. Grain & leaf type amaranthus are..... and Pollinated
a. Often cross, often self b. Cross, Self c. Often cross, Self
40. Emasculation is perfect only in amaranthus species
a. *A. spinosus* b. *A. hypochondriacus* c. *A. hybridus* d. *A. tricolour*
41. Palak readily crosses with beet roots, swiss chard and pig weed but not with.....
a. Amaranthus b. Methi c. Spinach d. Tomato
42. is cross between swiss chard and palak
a. Jobner green b. Pusa Haarit c. Pusa Palak d. Pusa Jyothi
43. Is called as poi
a. Rhuburb b. Asparagus c. Palak d. Basella
44. Long day inhibited flowering in
a. Palak b. Onion c. Carrot d. Basella
45. Seed rate of celery.....
a. 100g/ha b. 150-250 g/ha c. 300g/ha d. 400-500g/ha
46. Turnip rooted celery is botanically.....
a. *A. graveolens var secalinum* b. *A. graveolens var dulce* c. *A. graveolens var celeriac*
47. Festival 6-8 is intergeneric cross between
a. Parsley x celery b. Celery x parsley c. Parsley x Leek d. Carrot x celery
48. Pappus are the index of seed maturity in.....
a. Celery b. Parsley c. Carrot d. Lettuce
49. Ben or behen oil is extracted from
a. Okra b. Bittergourd c. Lima bean d. Drum stick

50. Is called as multivitamin tree
 a. Amaranthus b. Winged bean **(c) Chekurmanis** d. Spinach
51. Perennial and annual drumsticks are propagated by and respectively
(a) Limb cutting & seeds b. Suckers & Off shoots c. Cuttings & corms
52. The vegetable in which every part is edible
 a. Dolichous bean b. IVY gourd c. Drumsticks **(d) Winged bean (supermarket)**
53. Vegetable which is commercial source of levulose or insulin
 a. Potato **(b) Sweet potato** c. Arrow root **(d) Jerusalem artichoke**
54. Chromosome number of Jerusalem artichoke is
 a. 34 b. 48 c. 68 d. 102
55. Ideal drying ratio in onion is
 a. 10:1 b. 12:1 c. 9:1 **(d) 6:1**
56. Triploid variety of onion is
 a. Prima b. Severianin **(c) Pran** **(d) Arka Kalyan**
57. Storage temperature for seed potato and processing potato is &
 respectively
 a. 3.4-4°C, 10-12°C b. 0°C, 8°C c. 0°C, 1°C d. 0°C, 0°C
when potato stored 24 then can starch → sugar
58. Best storage temperature for storage of mother bulb in onion is
(a) 2°C b. 3°C c. 0°C d. 12°C
59. Salinity tolerant variety of onion
 a. Hisar-1 **(b) Hisar-2** c. Arka Kalyan d. Arka Niketan
60. & % of total production of onion and chilli respectively is exported from India
 a. 5%, 4% b. 3%, 2% c. 30%, 20% d. 20%, 25%
61. Delayed application of Nitrogen/ top dressing leads to In garlic
 a. Thick neck b. Premature sprouting **(c) Rubbering** d. Rotting
62. coloured garlic are more prone to branching and sprouting
 a. Purple **(b) White** c. Yellow d. Pink
63. seeded French bean are more prone to hypocotyls necrosis
 a. **(b) White** b. Coloured c. Red d. Yellow
64. Staminate and pistillate flowers are borne on the same leaf axils in the genus And
 a. Cucumis, Cucurbita b. Luff, Lagenaria c. Citrullus, Cucumis **(d) Saechium, Luffa**
65. Fruit peduncle is morphologically distinguishable characteristic in genus
 a. Cucumis **(b) Cucurbita** c. Sechium d. Luffa
66. Early and late cultivars of pea bear their first flower between and node respectively
(a) 5-11, 13-15 b. 3-4, 10-11 c. 8-10, 15-16 d. 2-5, 7-8
67. cucurbit is called as green potato
 a. Bitter gourd b. Bottle gourd **(c) Pointed gourd** d. Cucumber
→ Rich in Carotene
68. Tomato and water melon are And fruits respectively
(a) Climacteric, Non climacteric b. Berry, Drupe c. Solanacious, Cucurbitacious
69. enzyme converts the bitter principle cucurbitacin into non bitter principle
 a. Hydrolase b. Cucurbitacinase c. Hydrocucumerse **(d) Elaterase**
70. Cucurbit with highest edible portion is
 a. Snake gourd **(b) Tinda** c. Bitter gourd d. Ash gourd
71. Economic sex ratio in cucurbits is... *→ Round 1, 2, 3*
 a. 25:1 b. 30:1 **(c) 15:1** d. 2:1
72. Primitiver and advanced sex form in cucurbits are and respectively
(a) Hermophrodite, Monoecious b. Monoecious, Dioecious
 c. Androecious, Gynoecious d. Gynoecious, Trimonoecious
73. F₂ seeds are used in cucurbit
 a. Winter squash b. Cucumber c. Watermelon **(d) Summer squash**
74. Triploid variety of cassava
(a) Sree Harsha b. Sree Varsha c. Sree Nidhi d. Sree Prakash
75. Kalmegh is the variety of *→ Roots var*
 a. Cassava **(b) Sweet potato** c. Chilli d. Yams
76. Mother corms are harvested and marketed in

77. is a gynoeocious based hybrid of cucumber
 a. Phule himangi b. Phule Shubhangi c. Phule Champa d. Pusa Uday
78. Pickling variety of cucumber will have coloured spines & Salad type → white
 a. Blue b. White c. Black d. Red
79. Stem of greater yam twines to
 a. Left b. Right c. Stright d. Round
80. Multiviral resistant cultivar of bottle gourd.....
 a. Co-1 b. Arka Bahar c. Cow Leg D. Pusa Meghdoot
81. Cyst Nematode of Potato is problem in.....
 a. Northan hills b. Westren plains c. Southren hills d. Eastren hills
82. Wart of potato is Sevier in.....
 a. Hills of Karnataka b. Hills of T.N. c. Hills of A.P. d. Hills of West Bengla
83. Pickling and dehydration variety of bittergourd....
 a. Arka Harit b. Arka Summet c. Pusa Vishesh
84. Arka Sheetal is the variety of.....
 a. Snap melon b. Long melon c. Water melon d. Cucumber
85. Cucurbit that remains dormant during winter and sprout in the next season is....
 a. Ivy gourd b. Pointed gourd c. Cucumber d. Karkol
86. River bed cultivation of potato is followed in.....
 a. Karnataka b. U.P. c. Bihar d. Gujarath
87. increases no. of large sized tubers in potato
 a. N b. P c. K d. Ca
88. increases weight of fruit in brinjal
 a. N b. P c. K d. Zn
89. Gherkins of higher quality can be obtained when harvested on.....
 a. First day of anthesis b. Second day of anthesis
 c. Third day of anthesis d. Fourth day of anthesis
90. The quality edible fruits in okra can be obtained when harvested on.... Days of pollination
 a. 4-6th day b. 7-8th day c. 9-10th day d. 11-12th day
91. Red seeded cultivar of watermelon.....
 a. Special No.1 b. Mateera c. Arka Madhura d. Katal Gaon
92. Rainy season cultivar of watermelon.....
 a. Special No-1 b. Mateera c. Arka Madhura d. Katal Gaon
93. Rind colour of Sugar baby is..... → Seedless
 a. Bluish black b. Green c. Dark green d. Black
94. YVMV resistant variety of okra
 a. Pusa Sawani b. Parbhanini Kranti c. Pusa Makhmali D.
95. Poi is prepared out of
 a. Yams b. Pumpkin c. Taro d. Cassava
96. Watermelon grafted on fusarium-wilt resistant cultivar
 a. Pusa bedana b. Arka Bahar c. Renshi
97. is the major constituent of total acid in tomato
 a. Mallic acid b. Succinic acid c. Lycopene d. Citri acid
98. Mutant tomato variety with green flesh...
 a. S12 b. Co-1 c. PKM-1 d. Pusa Lal Meeruti
99. New botanical name of Lycopersicon hirsutum is....
 a. Solanum lycopersicon b. Solanum hirsutum c. Solanum hubrochaites d. Solanum pennelli
100. 100 seed weight is called as..... & 1000 seeds called → Testing
 a. Seed Index b. Real value of seed c. Test weight d. Test weight
101. Harriingtons thumb rule on seed viability in storage will not be applicable to.
 a. Orthodox seeds b. Recalcitrant seeds d. c. Real seed
102. Chillli varity having yellow anther marker is....
 a. G-4 b. G5 c. Bhaskar d. G1

Capsicum annum & S. fru → Blue anthers

chinese → only have brown coloured seed

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103. Capsaicin content of chillies vary between....
a. 0.2-0.5% b. 0.5-0.7% c. 0.7-0.9% d. 0.9-0.12%
104. Fruit setting % in chilli ranges between
a. 30-40% b. 70-80% c. 60-70% d. 50-60%
105. Carrot is.....
a. Monoecious b. Androecious c. Andromonoecious d. Gynocoandrous
106. Phytophotodermatis is caused by.....
a. Carrot b. Parsnip c. Celery d. Parsley
107. Chemical responsible for phytophotodermatitis is.....
a. Caumarin b. Carrotol c. Appin d. Furanocaumarin
108. Tomato variety with erect fruits.....
a. Pant C-1 2. Pant C-2 3. Pusa Jwala d. Jwalamukhi
109. Nation wide top priority in onion breeding is to develop Variety
a. Rabi b. Kharif c. Long day d. Short day
110. Tetraploid variety of radish....
a. Sofia Delicious b. Semilong Red Giant c. Both a & b d. Pusa Chetki
111. Strongest self incompatibility is present in.....
a. Kale b. Cabbage c. Summer cauliflower d. Winter cauliflower
112. Pomato was developed by...
a. Welch and Grimbel b. F.C. Steward c. Melcher
113. species of okra is used as leafy vegetable also
a. *A. esculentus* b. *A. tuberculatus* c. *A. pungens* d. *A. manihot*
114. Changes of leaf orientation with response of high temperature and drought in cowpea is termed as
a. Light trophy b. Drought trophy c. Both a and B d. Paraheliotrophy
115. Male to female planting ratio onion seed production is...
a. 4:1 b. 8:2 c. 9:2 d. Both a and b
116. AmA-1 gene was transferred from amaranthus to potato by ...
a. Singh a k b. Chakraborty c. choudray d. Kattappa
117. Generally winter vegetables can be stored at.....
a. $5-6^{\circ}\text{C}$ b. $7-8^{\circ}\text{C}$ c. -1 to -2°C d. $0-2^{\circ}\text{C}$
118. Onion seedlings are transplanted after weeks
a. 3-4 b. 4-5 c. 5-6 d. 8-10
119. Leaf silverying is a physiological disorder of.....
a. Tomato b. Onion c. Summer squash d. Chilli
120. Unfruitfulness of pointed gourd can be solved by planting..... adjacent to pointed gourd
a. Bitter gourd b. Bottle gourd c. Snake gourd d. Both a and b
121. Bottle gourd and Bitter gourd pollens stimulate parthenocarpy in
a. Ridge gourd b. Sponge gourd c. Pointed gourd d. Watermelon
122. Sexafire and Manga varieties resistant to club root belonging to and crops respectively.
a. Broccoli and Cabbage b. Cauliflower and Cabbage
c. Brussel sprout and Cabbage d. Broccoli and Cabbage
123. Shallot produces bulbs-----
a. below soil surface b. above soil surface c. in place of inflorescence d. on stem
124. Nation wide top priority in onion breeding is to develop Variety
a. Rabi b. Kharif c. Long day d. Short day
125. Positively photoblastic vegetable-----
a. onion b. carrot c. Endive d. lettuce → photo-thermo sensitive