

1. Arkel variety of garden pea is introduced from
  - a. **UK**
  - b. Germany
  - c. USA
  - d. None
2. Musk melon is crossable with which species
  - a. **Snap melon**
  - b. Bitter gourd
  - c. Watermelon
  - d. All
3. Native of African marigold is
  - a. **Mexico**
  - b. USA
  - c. South Africa
  - d. None
4. Gene responsible for common homozygous red colour in onion is
  - a. **iiCCRR**
  - b. Iiccrr
  - c. iiccRR
  - d. None
5. Which is not a Cole crop
  - a. **Radish**
  - b. Cauliflower
  - c. Cabbage
  - d. Knol khol
6. Positional sterility (Ps) is due to –
  - a. **Stigma exerted**
  - b. Stigma is not present
  - c. Stigma inserted
  - d. None
7. Seed not produced in plains of which group of cauliflower:
  - a. **Snowball cauliflower**
  - b. Kunwari
  - c. Pusa Sharad
  - d. None
8.  $2n$  of Rutabaga is
  - a. **38**
  - b. 34
  - c. 36
  - d. 28
9. Among the following, which table type of radish will not mature in 30 days
  - a. **Rapid red white tipped**
  - b. Pusa Himani
  - c. Pusa Chetki
  - d. All
10. Chemical present in wild solanum inhibit insects
  - a. **Chalcone**
  - b. Tomatine
  - c. Solasodine
  - d. All

11. Heterosis in muskmelon was first reported by
  - a. **Munger (1942)**
  - b. Singh (1952)
  - c. Berke (1946)
  - d. None
12. Not common predator used for vegetable crops
  - a. **Lace wing**
  - b. Ladybird beetle
  - c. Ground beetle
  - d. None
13. Complementary epistasis
  - a. 9:7
  - b. 15:1
  - c. 12:3:1
  - d. 9:3:3:1
14. Iso-genic lines derived from
  - a. **Backcross breeding**
  - b. Bulk method
  - c. Pedigree method
  - d. All
15. Vegetable rich in copper
  - a. Snap bean
  - b. **Navy bean**
  - c. Jack bean
  - d. Sword bean
16. INRA stands for
  - a. **Institute National de la Recherche Agronomique**
  - b. International Natural Research on Agronomy
  - c. Institute of National Research Academy
  - d. None
17. Most common method of breeding in India:
  - a. Bulk method
  - b. **Pedigree method**
  - c. Backcross breeding
  - d. None
18. Partial di-allele cross using 9 lines what will be total number of crosses will be:
  - a. 18
  - b. 27
  - c. 36
  - d. 72
19. Long day onion is cultivated only in which part of India
  - a. **Hilly region**
  - b. Northern plains
  - c. Western plains
  - d. None
20. White ooze from stem in water is symptom of which type of wilt
  - a. **Bacterial wilt**
  - b. Fungal wilt
  - c. Nematode wilt
  - d. All
21. Bi-parent mating design given by
  - a. **Comstock & Robinson**
  - b. Jones
  - c. Lerner
  - d. None
22. Parts of plant is controlled by MADS-box gene is
  - a. **Flowering**
  - b. Leaves
  - c. Stem
  - d. None



23. Tomato variety "S-12" is mutant of
- Sioux
  - Sweet-72
  - Pusa Ruby
  - None
24. "Ama-1" gene for protein in potato introduced from:
- Basella
  - Amaranthus**
  - Sweet potato
  - Pea
25. Immature flower buds are edible in
- Artichoke**
  - Carrot
  - Onion
  - All
26. Sprout suppressant in potato is
- Chloropham**
  - GA3
  - ABA
  - All
27. Which is not a co-dominant marker
- RAPD**
  - RFLP
  - SSR
  - CAPS
28. Co dominant marker :
- SSR
  - SCAR
  - RFLP
  - All**
29. Introgression lines or prebred stock commonly used in
- Tomato**
  - Potato
  - Onion
  - Brinjal
30. International tomato genome sequencing project – 10 countries involved in india working under which tomato chromosome?
- 5<sup>th</sup>**
  - 6<sup>th</sup>
  - 7<sup>th</sup>
  - 12<sup>th</sup>
31. What is the genome size of tomato?
- 950 Mb**
  - 875 Mb
  - 900 Mb
  - 800 Mb
32. SOL is under:
- International Solanaceae genome initiative**
  - Government of India
  - IBPGR
  - All of these
33. Which species of chilli bears black seeds with purple flowers?
- C. pubescence**
  - C. baccatum
  - C. annum
  - None
34. Chilli pungency governed by single dominant gene, gene symbol is
- Pun1**
  - P
  - Ca 1
  - None

35. Chilli brown colour is due to  
 a. **Chlorophyll retainer gene**  
 c. Chlorophyll absorber gene  
 b. Wilt  
 d. None
36. Which gene is responsible for carotene rich chilli  
 a. **CCS**  
 c. *Ca*  
 b. *ccs*  
 d. None
37. Progenitor of Brinjal is:  
 a. *S. incanum*  
 c. *S. gilo*  
 b. *S. insanum*  
 d. None
38. Vascular browning in tomato is due to deficiency of:  
 a. **Mg**  
 c. Ca  
 b. Mn  
 d. None
39. Fructan is present in:  
 a. Onion  
 c. **Both A and B**  
 b. Lettuce  
 d. None
40. Most suitable and acceptable onion classification:  
 a. **Hanlet**  
 c. Jones  
 b. Munger  
 d. None
41. Triploid viviparous onion cultivar:  
 a. Pusa Soumya  
 c. Arka Lalima  
 b. **Pran**  
 d. All
42. Which type of male sterility system is commonly used in onion?  
 a. T- cytoplasm  
 c. GMS  
 b. **S-cytoplasm**  
 d. All
43. Male sterility in onion was first reported in  
 a. **1925**  
 c. 1928  
 b. 1938  
 d. 1943
44. "Lucknow Boniya" is a variety of  
 a. **Sweet pea**  
 c. French bean  
 b. Snap pea  
 d. Indian bean
45. Which species of *Phaseolus* is highly cross pollinated :  
 a. *P. vulgaris*  
 c. *P. lunatus*  
 b. ***P. coccinus***  
 d. None
46. Choti chauli variety of amaranths belongs to :  
 a. ***Amaranthus blitum***  
 c. *A. tricolor*  
 b. *A. cruentus*  
 d. *A. dubius*
47. SCA and GCA equals which breeding method is rewarding:  
 a. **Reciprocal recurrent selection**  
 c. Backcross breeding  
 b. GWAS  
 d. None



48. Brown anther male sterility is originated from:
- Cornel
  - Tendersweet**
  - Ontario Canada
  - None
49. Guelph petaloid is identified in:
- Cornel
  - Tendersweet
  - Ontario Canada**
  - None
50. YVMV in okra is controlled by how many genes?
- 2**
  - 1
  - 3
  - 4
51. "Linkage" term was coined by:
- T.H.Morgan**
  - Yates
  - Kemphorne
  - None
52. Eggplant wild species cultivated in North East India
- Solanum indicum***
  - S. insanum*
  - S. incanum*
  - All
53. Curd of cauliflower consist how much % of total plant
- 70**
  - 60
  - 55
  - 65
54. Synthetic *Cucumis hytivus* done by-
- Chen J.F and Kirkbride J.II.**
  - Munger
  - Naudin
  - None
55. *C. hystrix* is the source of resistance to
- Gummy stem blight**
  - Powdey milew
  - Leaf spot
  - None
56. What is the scientific name of fluted pumpkin:
- C. ficifolia*
  - Telfairia occidentalis***
  - C. foetidissima*
  - C. moschata*
57. Multivitamin greens is known as:
- Chekkurmanis**
  - Palak
  - Amaranthus
  - None
58. Tendrillar flower common in
- Snake gourd**
  - Pointed gourd
  - Cucumber
  - None
59. Most recommended french bean type:
- Bushy type**
  - Pole type
  - Both A and B
  - None
60. Most of french bean varieties are:
- Short day
  - Long day
  - Day neutral**
  - None

61. Pusa parvati variety is developed from:
- Bulk method
  - Pedigree method
  - Gamma rays
  - X rays
62. Snow ball group cauliflower seed production started at Quetta in:
- 1940-1941
  - 1942-43
  - 1950-1951
  - None
63. L:D ratio of pickling cucumber is:
- 2.8-3.2
  - 1.2-2.4
  - 3.0-4.0
  - 3.3-3.6
64. INRA is located at:
- Paris
  - France
  - Geneva
  - London
65. What is the genome of *Cucumis hytivus*:
- AABB
  - BBCC
  - HHCC
  - CCHH
66. Cucumber sex genetically governed by *M* loci regulate which flowers:
- Pistillate
  - Staminate
  - Bisexual
  - None
67. Which fruit develop like water pouches?
- Tomato
  - Watermelon
  - Cucumber
  - Ash gourd
68. L:D ratio of slicing cucumber is:
- 3-4
  - 2.5-3.8
  - 4-7
  - None
69. Allin in garlic consist of
- Protein
  - Fats
  - Carbohydrates
  - None
70. Cucumber sex genetically governed by *F* loci regulate which flowers:
- Pistillate
  - Staminate
  - Bisexual
  - None
71. Vitamin B<sub>1</sub> is
- Thiamine
  - Niacin
  - Riboflavin
  - None
72. Pungency in chilli present in which part of fruit
- Placenta
  - Pericarp
  - Seeds
  - None
73. Heterosis in Tomato was first reported by
- Tanksley
  - Hayes & Jones
  - Henderick and Booth
  - None



74. Genome not-sequenced in :
- a. Tomato
  - b. Brassica
  - b. **Rhubarb**
  - d. Both B and C
75. The term 'Homeostasis' was coined by:
- a. Donald
  - b. **Lerner**
  - b. Garber
  - c. None
76. Which vegetable has large leaf but only petiole edible:
- a. Celery
  - b. **Parsley**
  - b. Amaranthus
  - d. All
77. Pollination in amaranths
- a. **Anemophily**
  - c. Ornithophily
  - b. Entomophily
  - d. Self pollinated
78. Inflorescence type of turnip is:
- a. **Terminal raceme**
  - c. Hypanthodium
  - b. Cymose
  - d. None
79. Bottle gourd variety for export purpose
- a. **Pusa Naveen**
  - c. Pusa Meghdoot
  - b. PSPL
  - d. None
80. "Schizocarp" type of fruit is seen in which vegetable crop?
- a. **Carrot**
  - c. Turnip
  - b. Radish
  - d. Beetroot
81. Which one is the asiatic variety of radish?
- a. Pusa Deshi
  - c. Pusa Reshmi
  - b. Pusa Chetki
  - d. **All**
82. Asiatic variety of turnip:
- a. Pusa Kanchan
  - c. Early Milan Red Top
  - b. Pusa sweti
  - d. **All**
83. Onion variety suitable for European and Japanese market
- a. **Yellow colour and round/spindle shape**
  - c. Pink colour and Very small sized
  - b. Red colour and oval shape
  - d. All
84. Bitterness in bitter gourd is due to
- a. **Momordicin**
  - c. Both A and B
  - b. Cucurbitacin
  - d. None
85. Which cucurbit is having very deep root system
- a. **Pumpkin**
  - c. Muskmelon
  - b. Cucumber
  - d. All
86. Tapioca is propagated by
- a. Seeds
  - c. **Stem cuttings**
  - b. Root cuttings
  - d. All

87. Edible podded variety of sweet pea:  
 a. Mithiphali (JP-19)  
 c. UN-53  
 b. Sylvia  
 d. All
88. Pusa Sukomal is a variety of  
 a. Cowpea  
 c. Clusterbean  
 b. Frenchbean  
 d. Garden pea
89. Pusa Deepti is a variety of:  
 a. Capsicum  
 c. Turnip  
 b. Chilli  
 d. Tomato
90. Okra variety resistance to YVMV, jassids, fruit and shoot borer  
 a. Pusa A-4  
 c. Co 2  
 b. Pusa Sawani  
 d. All
91. *Abelmoschus esculentus* is crossable with  
 a. *A. manihot*  
 c. Both A and B  
 b. *A. tetraphyllus*  
 d. None
92. Which is oldest variety of okra?  
 a. Pusa Makhmali  
 c. Co 1  
 b. Pusa Sawani  
 d. Panchali
93. Purple colour corolla in species of chilli  
 a. *C. Pubescens*  
 c. Both A and B  
 b. *C. cardenasii*  
 d. None
94. Flowering in potato under:  
 a. Long day  
 c. Day neutral  
 b. Short day  
 d. All
95. Which vegetable has maximum area and production in India  
 a. Potato  
 c. Cabbage  
 b. Tomato  
 d. Sweetpotato
96. Indian society of vegetable science established during  
 a. 1973  
 c. 1956  
 b. 1972  
 d. None
97. Which vegetable crop is originated in India?  
 a. Pumpkin  
 c. Potato  
 b. Basella  
 d. All
98. Highly self pollinated vegetable crop:  
 a. Lettuce  
 c. Pumpkin  
 b. Cucumber  
 d. All
99. According to Vavilov brinjal is originated in  
 a. India  
 c. Bangladesh  
 b. China  
 d. None
100. Sex form of Pointed gourd is:  
 a. Monoecious  
 b. Staminate  
 b. Dioecious  
 c. Pistillate