

1. Total nursery area required for tomato (m<sup>2</sup>):
  - a. 250
  - b. 200
  - c. 100
  - d. 150
2. In which gene pool *Lactuca virosa* is placed?
  - a. Primary
  - b. Secondary
  - c. Tertiary
  - d. Quaternary
3. How many carpels are present in Lettuce?
  - a. 2
  - b. 4
  - c. 5
  - d. 6
4. Which of the following is a three genome species of *Abelmoschus*?
  - a. *A. tetraphyllus*
  - b. *A. callei*
  - c. *A. manihot*
  - d. *A. moschatus*
5. Incidence of tomato leaf curl virus can be reduced by
  - a. 2,4-D
  - b. GA3
  - c. Cycocel
  - d. BA
6. Precooling temperature in tomato (°C):
  - a. 25
  - b. 4
  - c. 12
  - d. 13
7. Arka Vikas is selected from :
  - a. V-685
  - b. Tip top
  - c. Red cloud
  - d. Sioux
8. Which of the following is a red fruited variety of okra?
  - a. Kashi Pragati
  - b. Kashi Lila
  - c. Kashi Vibhuti
  - d. Kashi Kranti
9. Inbreeding depression is seen in:
  - a. Okra
  - b. Carrot
  - c. Cucurbits
  - d. All of the these
10. Species of okra tolerant to low temperature is
  - a. *A. angulosus*
  - b. *A. tuberculatus*
  - c. *A. pungens*
  - d. All of these
11. Species of okra which is true resistance to YVMV:
  - a. *A. angulosus*
  - b. *A. tuberculatus*
  - c. *A. pungens*
  - d. *A. manihot*

12. Self incompatibility is first reported in cole crops by:  
a. Nieuwhof  
b. Harberd  
c. Nagaharu  
d. Bateman
13. What is the economic part of Cabbage:  
a. Swollen stem  
b. Modification of leafy organs  
c. Enlargement of axillary bud  
d. **Modification of terminal bud**
14. Which variety of sweet potato is used as a trap crop for RKN:  
a. Shree Varun  
b. Shree Arun  
c. Varsha  
d. **Shree Bhadra**
15. Type of SI in sweet potato:  
a. **Sporophytic SI**  
b. Gametophytic SI  
c. Both  
d. None
16. Among the following, which is a variety of Indian bean:  
a. Kashi Pragati  
b. Kashi Taru  
c. **Kashi Param**  
d. All of these
17. Which of the following is the self compatible species of Sweet potato:  
a. *I. trifida*  
b. *I. leucantha*  
c. *I. triloba*  
d. All of these
18. Which of the following is the tetraploid species of sweet potato:  
a. *I. lacunosa*  
b. *I. ramosa*  
c. *I. triloba*  
d. All of these
19. Drought tolerance in pea by:  
a. ABA  
b. **Chloromequat**  
c. Ethrel  
d. All of these
20. What is the shelling percentage in pea:  
a. 40-45  
b. **35-45**  
c. 45-50  
d. 60
21. Multiple disease resistant variety of pea:  
a. Khaparkheda  
b. Arkel  
c. Bonneville  
d. **Aparna**
22. Branching habit pea variety :  
a. Arkel  
b. **Lincoln**  
c. Asauji  
d. All of these
23. Cold tolerant species of clusterbean:  
a. *P. filliformis*  
b. *P. polyanthus*  
c. *P. polystachys*  
d. All of these
24. Double podded variety of pea:  
a. Pant Matar-2  
b. **Hisar Harit SI**  
c. Asauji  
d. All of these

25. Percentage of edible portion of the pods in French bean:
- 80
  - 82
  - 94
  - None
26. Which of the following is a photoinsensitive variety of Indian bean:
- Swarna Rituvar
  - Arka bold
  - Arka Komal
  - All of these
27. In seed production of cabbage, Which method gives higher seed yield:
- Head intact method
  - Stump method
  - Stump with central core method
  - All of these
28. Black leg disease is more common in :
- Acidic soil
  - Alkaline soil
  - Saline soil
  - All
29. Head compactness of cabbage determined by:
- $Z = (C \times 100)/W^3$
  - $Z = (C \times 100)/W^2$
  - $Z = (C \times 100)^2/W^3$
  - $Z = (C \times 100)/W$
30. Among the following, resistant to downy mildew:
- Chinese cabbage
  - Cabbage
  - Cauliflower
  - All
31. Edible podded species of pea:
- P. sativum*
  - P. elatius*
  - P. sativum* var. *macrocapum*
  - All
32. Average heat units time for pea (°C):
- 5.5
  - 4.4
  - 6.6
  - 7.7
33. Which variety of pea has highest shelling percentage:
- Ageta 6
  - Arkel
  - Kashi Nandini
  - All
34. Purple skinned variety of potato:
- Kufri Khyati
  - Kufri Neelkanth
  - Kufri 'lima
  - All
35. Enzyme responsible for breaking the effect of cucurbitacin in cucurbits:
- Catalase
  - Eletrase
  - Lipase
  - None of these
36. In case of cole crops, if a line having fertility index >2 then :
- SC
  - SI
  - Pseudo SI
  - None
37. An extra early variety of tomato:
- Hisar Arun
  - Hisar Lalima
  - Hisar Lalit
  - Hisar Anmol

38. Major sugar present in radish:
- Fructose
  - Sucrose
  - Glucose**
  - Maltose
39. Tomatine content per 100g edible part in small type tomato (mg):
- 300
  - 350
  - 250
  - 150
40. Which chromosome is the largest one in tomato?
- 1
  - 12
  - 2
  - 6
41. What should be the TSS for processing of tomato:
- 4.5-7.0
  - 5-8
  - 3-6
  - 2-5
42. In case of cole crops, if a line having fertility index  $<1$  then :
- SC
  - SI
  - Pseudo SI
  - None
43. Best temperature for lycopene development in tomato ( $^{\circ}\text{C}$ ):
- 21-24
  - 24-27
  - 20-22
  - 16-18
44. Which variety of tomato is suitable for drought condition?
- Pusa Sheetal
  - Arka Vikas**
  - Arka Meghali
  - Roma
45. Tomato cv. Red rose was selected through how many generations from hybrid fruit?
- 4
  - 5
  - 6
  - 7
46. In which year tomato was introduced to india?
- 1820
  - 1840
  - 1900
  - 1920
47. In case of cole crops, if a line having fertility index 1-2 then:
- SC
  - SI
  - Pseudo SI
  - None
48. Which type of tomato fruits had best shelf life?
- Nr*
  - Rin*
  - Nor*
  - Alc*
49. Blue anthers found in which species of capsicum ?
- C. chinense*
  - C. pubescens*
  - Both A and B
  - None
50. Which chromosome is the shortest one in tomato?
- 1<sup>st</sup>
  - 12<sup>th</sup>
  - 2<sup>nd</sup>
  - 6<sup>th</sup>

51. Which cv. of capsicum is developed by anther culture technique?  
a. Arka Basant  
b. Arka Mohini  
c. Haihua-3  
d. None
52. Tomatine content per 100g edible part in large green type tomato (mg):  
a. 300  
b. 350  
c. 250  
d. 150
53. Precursor of capsaicin  
a. Vanillylamine  
b. Isocarpic acid  
c. Both A and B  
d. None
54. Which species of capsicum resistant to powdery mildew?  
a. *C. pubescens*  
b. *C. ciliaum*  
c. *C. flexuosum*  
d. *C. cadenasii*
55. Which species of brinjal is tolerant to drought:  
a. *S. gilo*  
b. *S. caripense*  
c. *S. persicum*  
d. All of these
56. Little leaf disease of brinjal was first reported in:  
a. Haryana  
b. Odisha  
c. WB  
d. Gujrat
57. What is the polar diameter: equatorial diameter ratio in case of conical head cabbage:  
a. >1  
b. 0.6  
c. 0.8-1  
d. None
58. Which species of brinjal is resistant to shoot and fruit borer?  
a. *S. sisymbriifolium*  
b. *S. viarum*  
c. *S. persicum*  
d. All of these
59. 1g seeds of brinjal have about ..... seeds.  
a. 300  
b. 350  
c. 250  
d. 400
60. Genetic basis of phomopsis blight:  
a. Polygenic dominant  
b. Monogenic dominant  
c. Polygenic recessive  
d. Monogenic recessive
61. De cholesterolizing action of brinjal is due to:  
a. Linolic acid  
b. Linolenic acid  
c. Both  
d. None
62. What is the polar diameter: equatorial diameter ratio in case of round head cabbage:  
a. >1  
b. 0.8-1  
c. 0.6  
d. None
63. At what temperature lycopene is destroyed in tomato (°C)?  
a. 40  
b. 34  
c. 27  
d. 30

64. Which species of brinjal is resistant to phomopsis blight?  
 a. *S. sisymbriifolium* b. *S. anthocarpum*  
 c. *S. persicum* d. All of these
65. Which species of tomato is the source of beta carotene?  
 a. *S. parvifolium* b. *S. pimpinellifolium*  
 c. *S. peruvianum* d. *S. neorickii*
66. Which species of okra is symptomless resistance to YVMV?  
 a. *A. angulosus* b. *A. tuberculatus*  
 c. *A. pungens* d. *A. manihot*
67. Which species of brinjal is resistant to verticillium wilt?  
 a. *S. gilo* b. *S. khasianum*  
 c. *S. persicum* d. All of these
68. Which type of tomato fruits suitable for cold storage?  
 a. *Nr* b. *Rin*  
 c. *Nor* d. *Alc*
69. Which species of brinjal is the important source of solasodine?  
 a. *S. sisymbriifolium* b. *S. khasianum*  
 c. *S. persicum* d. All of these
70. What is the polar diameter: equatorial diameter ratio in case of drum head cabbage:  
 a. >1 b. 0.8-1  
 b. 0.6 d. None
71. Which species of capsicum tolerant to soil salinity?  
 a. *C. pubescens* b. *C. ciliaum*  
 c. *C. flexuosum* d. *C. cadenasii*
72. Which variety of Cabbage is the tropical variety?  
 a. Copenhagen market b. Pusa Drumhead  
 c. **Pusa Ageti** d. All of these
73. Which gene is responsible for ogura CMS in radish?  
 a. *orf 138* b. *orf 125*  
 c. *orf 136* d. *orf 132*
74. Which species of brinjal is resistant to little leaf:  
 a. *S. sisymbriifolium* b. *S. caripense*  
 c. *S. persicum* d. All of these
75. .... is used as a mulching material in brinjal.  
 a. **Sarkanda grass** b. Doob grass  
 c. Korean violet grass d. All
76. Which species of capsicum tolerant to water logging?  
 a. *C. pubescens* b. *C. ciliaum*  
 c. *C. flexuosum* d. *C. cadenasii*

77. Which is the first purple variety of radish ?  
a. **Pusa Sagarika** b. Pusa Shuka  
c. Pusa Safed d. All
78. Absence of capsaicin in chili is controlled by:  
a. Polygenic dominant b. single dominant  
c. Polygenic recessive d. **single recessive**
79. Which variety of chilli used for HDP?  
a. Pant C-1 b. Pusa Jwala  
c. **Jwalamukhi** d. All
80. Which variety of chilli is multiple disease resistant?  
a. **Punjab Surakh** b. Pusa Jwala  
c. Arka lohit d. All
81. Which variety of chilli is multiple disease resistant?  
a. Utkal Rashmi b. Arka Gaurav  
c. Ujjwala d. **All**
82. Which species of brinjal is resistant to fusarium wilt ?  
a. ***S. toymum*** b. *S. khasianum*  
c. *S. persicum* d. All of these
83. .... yellow anther chilli used as a marker gene or trait:  
a. **Bhaskar** b. Pusa Jwala  
c. Arka Lohit d. All
84. Thrips resistant variety of chilli:  
a. G-4 b. **G-5**  
c. G-6 d. None
85. Which variety of brinjal is an extra long variety?  
a. NDB-25 b. Pant Rituraj  
c. T-3 d. **Arka Shirish**
86. Eclipse is a variety of which crop?  
a. Chilli b. Tomato  
c. **Brinjal** d. Cabbage
87. Which species of brinjal is resistant to eggplant mosaic virus ?  
a. *S. gilo* b. ***S. hispidum***  
c. *S. persicum* d. All of these
88. Which variety of chilli is resistant to powdery mildew?  
a. Punjab Surakh b. Pusa Jwala  
c. **Arka lohit** d. All
89. Which variety of brinjal is an extra early variety?  
a. NDB-25 b. **Pusa Purple Long**  
c. T-3 d. Arka Shirish

90. Which species of brinjal is immune to little leaf:  
a. *S. sisymbriifolium* b. *S. caripense*  
c. *S. auriculatm* d. All of these
91. The period of potato tuber dormancy is :  
a. 8-10 weeks b. 4 months  
c. 5 months d. None
92. Which transgenic variety of potato is resistant to Colorado potato beetle?  
a. New leaf b. Russet Burbank  
c. Scarlet d. Amflora
93. Which transgenic variety of potato is free from amylose content?  
a. New leaf b. Russet Burbank  
c. Scarlet d. Amflora
94. Potato scab occurs in which soil?  
a. Alkaline soil b. Saline soil  
c. Acidic soil d. All
95. CPRI was established in:  
a. 1945 b. 1948  
c. 1947 d. 1949
96. Which species of brinjal is resistant to epilachna beetle:  
a. *S. sisymbriifolium* b. *S. caripense*  
c. *S. torvum* d. All of these
97. What is the genomic formula *B. nigra*?  
a. AABBBCCDDEF b. AABBBCCDEF  
c. ABCDEEFF d. All
98. Tetradyamous is a special anther type in which crops?  
a. Cole crops b. Solanaceous crops  
c. Okra d. None
99. In which crop epicalyx is present?  
a. Cabbage b. Brinjal  
c. Okra d. Tomato
100. What is the protein content of okra?  
a. 20-30% b. 40%  
c. 50% c. None