

JRF TEST-VEGETABLE SCIENCE

ID No: UH512061215

1. Male Sterility in onion was identified in the year
a) 1920 ~~b) 1925~~ c) 1930 d) 1935
2. Yellow coloured vegetables are rich source of
~~a) Vitamin A~~ b) Vitamin B c) Vitamin C d) Vitamin E
3. Sex expression in yam is
a) Monoecious ~~b) Dioecious~~ c) Both d) None
4. Potato leaf virus belongs to
a) PotY Virus b) PotX Virus ~~c) Luteo Virus~~ d) Caulimo Virus
5. Which of the following is only one bean grown as winter crop?
a) Lima bean b) Cluster bean ~~c) Broad bean~~ d) Dolichos bean
6. Tuber crop which is rich in proteins is
~~a) Better quality of seed tuber~~ b) High Yield c) High Protein d) High Starch
7. Lettuce is a
~~a) Self pollinated~~ b) Often Cross c) Cross Pollinated d) None
8. Sweet potato is
a) Autotetraploid b) Allotetraploid ~~c) Autohexaploid~~ d) Allohexaploid
9. Asparagus chromosome number $2n =$
a) 18 ~~b) 20~~ c) 22 d) 24
10. Delayed harvesting in radish may cause
~~a) Pithiness~~ b) Forking c) Malformed roots d) All of these
11. Palak inflorescence type is
a) Racemose b) Cyme c) Spike ~~d) Panicle~~
12. The best day temperature for proper fruit set in bottle gourd is
a) $20^{\circ}-25^{\circ}\text{C}$ b) $25^{\circ}-30^{\circ}\text{C}$ ~~c) $30^{\circ}-35^{\circ}\text{C}$~~ d) $35^{\circ}-40^{\circ}\text{C}$
13. Antinutritional factor in sweet potato is
a) Protease ~~b) Trypsin inhibitor~~ c. Oxalates d. HCN
14.gms of Kale seeds are required to raise for one hectare of land
a) 100-200 b) 200-300 ~~c) 300-400~~ d) 400-500
15. Arka Keshav is resistant to
a) Bacterial Wilt b) Phomopsis Blight ~~c) Both a & b~~ d) Aphids
16. Highest oxalic acid is found in leafy vegetable

- a. Amaranthus b. Lettuce c. Spinach d. Methi
17. Sugar Baby watermelon is introduction fromcountry
 a) India b) Africa c) USA d) Germany
18. Heat units in pea is calculated in based on
 a. Vernalization temp. b. High day temp. c. Low night temp. d. Base temp.
19. Which bean is used to prepare the wine?
 a. Cluster Bean b. Lima Bean c. Faba Bean d. Indian bean
20. Example for Andromonoecious Cucurbit:
 a. Musk melon b. Watermelon c. Cucumber d. Pumpkin
21. Tetraploid species of Amaranthus
 a. *tricolor* b. *caudatus* c. *cruentus* d. *dubius*
22. Green Beans are good source of
 a. P b. Zn c. Ca d. K
23. Multigerm seed is found in case of
 a. Carrot b. Turnip c. Beetroot d. Radish
24. Highest production share among the vegetable in India (2013-14) is
 a. Onion b. Tomato c. Potato d. Brinjal
25. ____ % share of UP state for total vegetable production in India (2013-14) is
 a. 14.1 b. 11.4 c. 9.3 d. 8.1

✓ **State True or False**

26. Diploid chromosome number of Cassava $2n = 36$ ✓
27. Isolation distance for foundation seeds of cross pollinated vegetables is 800 m ✓
28. Seed rate of garden peas is 100 kg/ha ✓
29. Round head cabbage varieties mature the earliest followed by the conical varieties ✓
30. September an early and high-yielding variety, it is recommended for Nilgiri hills ✓
31. The capsicum hybrids yields of about 40-45 tonnes/ha ✓
32. In Carrot the temperate types are biennial, whereas the tropical types are annual ✓
33. The temperate types form roots both under temperate and tropical climates but set seeds only under temperate conditions ✓
34. Pusa Meghali has orange flesh and self-coloured core ✓
35. Pusa Komal is the cultivar of Cow pea ✓
36. Jaffna is a cultivar of drumstick is introduced from Sri Lanka ✓
37. Freezing injury occurs as a result of ice formation in potato tubers when exposed to temperatures between -1° and -2°C ✓

38. Potato tuber dormancy is about 8-10 weeks ✓
39. Arka Anand is a cultivar of Brinjal is suitable for long transport ✓
40. Black mould of Onion is caused by *Aspergillus niger* ✓
41. Sauerkraut is value added product prepared from white cabbage ✓
42. SPT in potato was developed by Dr. Puskarnath ✓
43. Garlic Agrifound Parvati is long day type and can be grown only in northern hills
44. King of North is the variety of Knol-khol (*Brassica oleracea* var. *gongylodes*) ✓
45. For local market Musk melons are harvest at full-slip stage ✓
46. Akashin physiological disorder is due to the deficiency of Bo ✓
47. Male and female plants ratio in Tomato is 12:1 ✓
48. China ranks first in area and production of sweet potato
49. Propagation of Rhubarb is by corms ✓
50. Origin of Jerusalem Artichoke is USA ✓
33. **Fill in the blanks**
51. Pusa Mukta of cabbage is resistant to BLACK club rot disease
52. *Sesbania grandiflora* leaves are rich in VITA
53. To increase the femaleness in Ash gourd (*Benincasa hispida*) spray GA₃ MH with the conc. _____
54. Brown heart or breakdown of beets is caused due to deficiency of B in Alkaline type of soils
55. Badi Chaulai and Chhoti Chaulai are the cultivars of Amaranthus
56. Seed rate of Brussels sprout 500g/m²
57. Fork Hook Emperor is the cultivar of BE vegetable
58. Crimson Globe is a cultivar of Beet root which are Globular shaped roots
59. CPRI established in 1949 year
60. Jade Cross and Rubine are the F1 hybrids of BC
61. Cabbage covers about 2% of total area under vegetables
62. Golden Acre a cultivar of cabbage is the selection from Lophenhegan market
63. Curry leaf commercial harvest starts from 3 year-old plants
64. Sem bean is native of INDIA
65. Extreme male Veg male, Veg female & _____ are the different types of sex types in Spinach
66. Lycopene content in tomato is 15-20 mg/100g fruit weight
67. First Parwal hybrid developed in the country which is resistant to fruit fly is check hybrid 1

68. Pusa Yamdagini _____ coloured flesh with self-coloured core
69. Hydroponics technique was first developed on commercial scale by W.F. GRECKE & W.A. SEBACH
70. Dried chilli contains of about 40 % pericarp and 54 % of seeds
71. Pusa Parvati (French bean) is resistant to PM & viral diseases
72. Tip burn is a physiological disorder of Lettuce
73. The ideal temperature requirement for bulb development in onion 15.5 - 25.5°C
74. Palam Samridhi and Pusa KTS-1 are the cultivar of Brinjal
KHDI 11/4/1
75. White flower coloured cucurbit vegetables are Bottle gourd & Snake gourd & Parwal
76. Cleistogamy is most common in Lettuce
77. Round melon (*Citrullus vulgaris* var. *fistulosus*) also known Tinda & Round gourd, Squash
78. Anthesis time of onion is 6-9 AM
79. Loss of vigour due to selfing is known as Degeneration inbreeding dip
80. Patty Pan is an introduced cultivar of Summer squash
81. Scientific name of Chinese water chestnut E. dulif
82. Fern leaf of tomato is transmitted by Aphid
83. Fruit and shoot borer of Brinjal is A. tritica L. albionif
84. Arka suryamukhi is resistant to fruit fly
85. TSS of Ripe musk melon is 14-17°B

Match the following

86.	1. Indian Horticulture	a. GAU, Junagarh ²
87.	2. Scientific Horticulture	b. Hissar (HA) ⁵
88.	3. Indian Spices	c. Cochin (Kerala) ³
89.	4. Indian Journal of Horticulture	d. ICAR, New Delhi ¹
90.	5. Haryana Journal of Horticulture	e. IARI, New Delhi ⁴
91.	1. Sweet Potato	a. $2n=20$ ⁵
92.	2. Winter Squash	b. $2n=124$
93.	3. Fenugreek	c. $2n=90$ ¹
94.	4. Spinach	d. $2n=40$ ²
95.	5. Turnip	e. $2n=16$ ³
96.	1. Pusa Nutan ¹	a. Summer Squash
97.	2. Pusa Shukti ³	b. Turnip
98.	3. Pusa Chandrima ²	c. Ash Gourd
99.	4. Pusa Pasand ⁵	d. Cauliflower
100.	5. Pusa Shreyali ⁴	e. Ridge Gourd

Bonus question

Recently Discovered New Indian Banana species is Musa... andamanensis.....

JRF TEST-FRUIT SCIENCE

Choose the Answers

1. Most widely adopted method of training in fruit crops is
a) Open centre ~~b) Modified leader~~ c) Central leader d) None
2. Most serious disease of grapes is
a) PM ~~b) DM~~ c) Wilt d) Anthracnose
3. Finest Mandarin variety in the world is
a) Coorg b) Khasi ~~c) Nagpur~~ d) Satsuma
4. Cashew nut is richest source of
a) Carbohydrates b) Vitamin B c) Vitamin K ~~d) Fat~~
5. India ranks first in production of
~~a) Papaya~~ b) Apple c) Citrus d) Grapes
6. Optimum storage temperature for Pear is
~~a) -1~~ b) 5 c) 10 d) -10
7. Aleurone layer of a monocot seed has chromosome number of *Couler maxt laefer. gendeeform*
a) n b) 2n ~~c) 3n~~ d) 4n
8. Parthenogenesis is found in
a) Jamun ~~b) Mangosteen~~ c) Citrus d) Grapes
9. Chema and Dhani was first observed spongy tissue of mango in.....
a) 1920 b) 1820 ~~c) 1934~~ d) 1834
10. Among the annonaceous fruits which is the most favorite fruit in India
a) Sour Sop ~~b) Custer Apple~~ c) Cherimoya d) Bullak Heart
11. Malic acid is present in
a) Apple b) Plum c) Cherry ~~d) All of the above~~
12. Citrumelo is derived from
a) Trifoliate Orange X Grape Fruit b) Trifoliate Orange X Sweet Orange
c) Trifoliate Orange X Mandarin ~~d) Trifoliate Orange X Pummelo~~
13. Interveinial chlorosis in Apple is due to the deficiency of
~~a) Mg~~ b) Zn c) Cu d) Mb
14. J.H. Hale is a famous cultivar of
a) Apple b) Pear ~~c) Peach~~ d) Plum
15. Satellite chromosomes controlin papaya
~~a) Maleness~~ b) Femaleness c) Both d) None
16. Louquat is strictlyfruit crop
a) Tropical ~~b) Sub tropical~~ c) Temperate d) Semi Arid
17. Banana streak virus is transmitted through.....
~~a) Mealy Bugs~~ b) Aphids c) Thrips d) Nematodes
18. Horticultural Society of India (HSI) was established in the year.....
~~a) 1942~~ b) 1947 c) 1954 d) 1950
19. Guaya bears fruit probably inshoots
~~a) Current Season~~ b) One year old shoot c) Spur d) Very old shoots
20. Quince C is the root stock of
a) Apple b) Peach ~~c) Pear~~ d) Plum
21. Peach comes into bearing afteryears of planting in the field
a) 2 ~~b) 3~~ c) 5 d) 7

22. The fruit crop which is devoid of root hairs is
 a) Mangosteen b) Kiwi c) Durian d) Persimon
23. Which of the following is fruit thickening growth regulator is
 a) IBA b) NAA c) ABA d) GA
24.fruit crop belongs to the group of sensitive to salinity (1.5-3 m mho/cm)
 a) Strawberry b) Pomegranate c) Apple d) Fig
25. Apple is a best example for.....
 a) Short day b) Day Neutral c) Long Day d) None

State True or False

1. Bullock's heart is more commonly found in South India than in North India **T**
2. Ascolano is a popular cultivar of Olive which is resistant to olive fly **False**
3. All the cultivated varieties of strawberry are Octaploid **False True**
4. The early drop in Apples is considered to be natural and occurs due to lack of pollination and fruit competition **True**
5. Acidlime (*Citrus aurantifolia*) is the third important fruit after mandarins and sweet oranges **True**
6. Apricot fruit tree bears alternate bearing habit **True**
7. Kiwi Fruit is a dioecious plant, it bears pistillate and staminate flowers separately
8. Commercial propagation of Lemon is seed **True**
9. Most of the mango varieties in south are polyembryonic in nature and produces true-to-type seedlings **False True**
10. Sweet oranges are the second largest citrus fruits being cultivated in India **True**
11. Cherimoya is restricted to Assam and hills of south India **T**
12. Albinism is a physiological disorder of strawberry due to lack of fruit colour during ripening **T**
13. Banarasi variety of Aonla is a late maturing, shy-bearing and good shelf-life **False**
14. About 80-85 days are required from fruit set to harvest in Passion fruit **True**
15. For propagation of Pine apples slips weighing about 500g are ideal **False**
16. Jackfruit (*Artocarpus heterophyllus*) is popularly known as the poor man's food **T**
17. Custard-apple is a cross-pollinated crop **T**
18. NA 6 A seedling selection of Francis **False**
19. Paja (*Prunus cerasoides*) is commonly used as a rootstock for sweet cherry **T**
20. Gamboge is characterised by yellow exudation of gum on the fruits and branches **T**
21. Apple varieties require 2,000-2,500 hours of chilling below 7°C during winter **False**
22. McIntosh is a late season cultivar of Apple **False**
23. Jamun fruits can be stored only up to 2 days at ambient temperature **True**
24. Neer Vazhai is most severe in Nendran bananas **T**
25. Villafranca: It belongs to Eureka lemon group **T**

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1. The individual fruit weight of Mango var. Alphonso for export purpose is about 250 gms
2. Texas is the cultivar of ^{almond} Banana fruit crop
3. Sugar Apple is also called as custard apple, Sitaphal, & Snollt sou f sloait
4. Ratna variety of Mango is cross between Neelum × Alphonso and which is released from ERS Vengal institute
5. Annona *atemoya* is a cross between A 59 × A. cherimola (only botanical names)
6. Inflorescence type of trifoliolate orange is Solitary
7. Edible part of strawberry is Flechythalamus
8. First mango hybrid developed from IARI is Mallika
9. Application of planofix and Celoman NAA-based compounds @ _____ ppm induces flowering in pineapple
10. Ruby is a hybrid from a 3-way cross between Kabul × Ganes × Gulshan rose pink
11. Gynodioecious varieties of Papaya are ^{P. majestic} Summer colo and ^{P. deliciosa} Rainbow
12. Introduced polyembryonic rootstocks of Mango are ApriCot and Zimond, SB,
13. Winter Banana is a cultivar of Apple
14. Ambrich is a cross between Richard × Ambei
15. June drop in Apples is caused by Moisture stress and EMV Condⁿ
16. Apricot is trained to open centre system of training open vase & modified
17. Pollock, Simmond are belongs to West Indian races of Avocados
18. Amrithpani and Rasabale belongs to the genomic group of Banana is AAB
19. Ber fruits are rich in vitamin A, B and C complex
20. Severe pruning in Ber will be done during March month
21. pink berry is the major physiological disorder of Thompson Seedless and its clones
22. Narendra Jamun 6 is released from CJSH (NDAUD)
23. Carambola or starfruit (*Averrhoa carambola*) is native to Indonesia
24. Trifoliolate orange is used as donor source for Phytophthora & Nemato diseases
25. Macadamia nut diploid chromosome number $2n =$ 98.

GOOD LUCK