

ICAR NET – 2023 vegetable science **Memory based questions**

Compiled by -

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- 1) Family of Rhubarb -Polygonaceae
- 2) Chromosome number of oriental Pickling Melon -24
- 3) Which among the following is the member of monocotyledonaceae Asparagus
- 4) Vegetables comes under which among the following Angiospermae
- 5) Match the following Botanical name of Greater yam, yam bean, pacific yam, white yam – D. alata, Pachyrizhus erosus, D. nummularia, D. esculenta
- 6) Botanical name of Rat tail radish Raphanus sativus var caudatus
- 7) Storage period of onion seeds is -1 year
- 8) Ty-4 is present in which chromosome number of tomato -3
- 9) Arka Abhed is resistant to which among the following diseases Early blight, late blighy, Bacterial wilt, ToLCV
- 10) Arka rakshak and arka samrat are resistant to which among the following diseases Early blight, Bacterial blight ToLCV
- 11) Seed recovery percentage of tomato -1%
- 12) PH and citric acid content of processing tomato -4.5,0.35
- 13) Blotchy ripening in tomato is due K deficency
- 14) Hybrid seed rate of Tomato 100-150



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- 15) Highest seed yield in tomato is obtained from Acid/Alkali?
- 16) Black colour seeds are present in which among the following capsicum species C.pubesence
- 17) Red colour and pungency in chilli is due to Capsorubin and Capsaicin
- 18) Fruit drop in chilli can be overcomed by spraying NAA
- 19) Capsicum hybrid Pusa deepti is a cross between- Yollow wonder ×Russian yellow
- 20) PAU ludhiana and IIHR banglore released chilli hybrids by using GMS, CGMS
- 21) Which among the following is the seed rate of Karif season okra -8-10 kg/ha
- 22) what is the export size of okra fruits -6-8 cm
- 23) Common ancestor of Cole crops is Brassica oleracea var sylvestris
- 24) Cole crops highly Self Incompatible and Protogynous in nature which results in Highly Heterogeneous and Highly Heterogyous
- 25). Bud pollination is done in- Cabbage
- 26) Monogenic species of Cole crop is Brassia Oleracea
- 27) Palan Kanchan and Palam Vichitra are the varieties of Sprouting Broccoli
- 28) Raphanus and Brassia Olereceae 2n after chromosome doubling 12
- 29. Seed production of cabbage cannot be successfully done in Banglore (Option given Shrinagar, Shimla, Kinnaur
- 30) Trap crop for cabbage to controll the incidence of diamond back moth -Mustard
- 31. Arka Nikita, a variety of Okra is released by which method GMS
- 32. Pre-harvest application dose of N- Benzyl adenine for prolong the shelf life of leafy vegetable is – 10-20 ppm
- 33) Peeling term for carrot Scraping
- 34) Main heat transfer mechanism used for cooling produce Conduction and convection
- 35) Oxygen absorber in Modifiedatmospheric storage- Ferrous Oxide
- 36) Storage temperature of Okra -40 50 F° with 90-95 Rh
- 37) Ratio of Complementary gene action 9:7







- 38) In Modified Atmospheric system oxygen level reduced from 27% upto -3%
- 39) components present in controlled atmosphericstorage are Co2 + O2 + N2
- 40) Vacuum cooling is used for Leafy Vegetables
- 41) Isolation distance for foundation seed production of chilli 400M
- 42) Purity % of breeder seed is -100
- 43) Progeny of seeds Nucleus Breeder Foundation Certified
- 44) Cross pollination percentage in Often cross pollinating crops- 5-12 %
- 45) In Brinjal which type flowers set fruits long style and medium style
- 46) Pseudo and short style flowers in brinjal act like Male flower
- 47) Triple response PGR Ethylene
- 48) Auto-catlytic hormone durint storage Ethylene
- 49) NSC established in which year 1963
- 50) Maximum year for protection of plant variety under PPV- FR act (2001) 15 years
- 51) Gynoeicous lines are used for the production of Cucumber
- 52) Progenitor of bitter gourd Momordica charantia var Muricata
- 52) Basella is propagated by Stem cutting
- 53) sterile line of onion Smsms
- 54) fertile line of onion- Nmsms
- 55) sugar present in Jerusalem artichoke Levulose
- 56) BN of Sward beam, Winged bean Canvalia gladiata, Psophocarpus tetragonolobus
- 57) Cole crop have toxic compound Sinigrin
- 58) correct order of maturity stages of tomato fruits

Green – Breaker – Turning – Pink – Red – Red ripe

- 59) Brinjal rootstock which resistant to bacterial wilt is Solanum toruvam
- 60) Hybrit seed production technique of bottle gourd is- Pinching of Male flowers





- 61) Which among the mechanisms allow self pollination Cleistogamy (chasmogamy was one of the option)
- 62) Grow out test is done to find out Genetic Purity of seed
- 63) Pre- emergence herbicide for onion Oxyflurofen
- 64) Brinjal Shoot and fruit bore registant gene Cry-1 AC
- 65) Root development is induce by Auxin
- *66*) Role of abscisic acid in plants reduce transpiration, dormancy
- 67) Statement (A) In Pumpkin hill we sown 4-5 seed

Statement (B)- After 2-4 leaf stage we remain two plant per hill

Answer – Both Statement correct

- 68) match the following Kashi Lalima Okra, Pusa Gulabi Radish, Pusa Asita Carrot
- 69) Hybrid seed rate of (Tomato 100-150 gm, Chilli 150-200 gm, Bottle gourd 4-5kg, Okra - 3-4 kg
- *70*) Blossom end rot (BER) symptoms appearance stages A. Start from small yellow spot
- B. Spots coalesce to form watersoaked area
- C. Large black area
- D. Secondary infection by fungus
- 70. High temperature, long day and low temperature, short day produce which type flowers in cucurbits

Ans .Male and female

71. Statement A. High carbohydrate is associated with male flower.

Statement B. High temperature increase male flower production.

Ans. Only b is right

- 72 Kakrol is common name of .Spine Gourd
- 73. Maturity colour of ivy Gourd. Scarlet red
- *74*) Which among the following is highly cross pollinated

Ans. Options are (french bean, cowpea, winged bean)





- 76) Phytochrome is involved in Photoperiodism
- 77) High root growth occur in Behind the apex
- 78) Partial self compatible cross of gametophyte self incompatibility is
- S1S2x S2S3
- 79) PMA is responsible for. Reduce transpiration
- 80) Glossy type wax O type
- 81) Waxing is responsible for Reduce transpiration and respiration
- *82)* Cabbage seed purity percentage for foundation seed and certified seed 98%
- 83) Gamma irradiation dose of onion and potato.0.06-0.01 and 0.1
- 84) Best pH for pea cultivation 6.5 7
- 85) White fungus growth in pickle Rhizopus
- 86) Lime is used for acid soil reclamation. Which among the following is true

Because solubility is decreased as the ph increases

- 87) Solanum malongena is highly fertile with S. Incanum
- 88) Non bulb forming member of alliaceae family Leek
- 89) The family having capsular fruits and palmately dissected leaves with Apex fall down after fertilization Malavace
- *90*) Bridging spp. Of cucurbita C. Lundelliana or C.moshata?
- 91) Musk melon is harvested for long distance transportation at Full slip mature stage
- 92) Tropical perennial vegetable crop Moringa and curry leaf
- 93) Crop suitable for partial shade condition Elephant foot yam
- 94) Black and brown colour seed marker is used in Onion
- 95) Advantages of marker assisted selection

Not transfer of transfer and identification of ressesive allels

- 96) Beet root gametophyte self incompatibility Monoallelic
- *97.* Which one is not an inhibitor for seed dormancy





Options are (ABA,GA3,vitamins)

- 98) Potato ploidy level and chromosome number Auto tetraploid(2n=4x=48)
- 99). Which among the following is a missmatch variety of beetroot Sugar baby
- 100. Export purpose contract farming done in Cucumber
- 101) which among the following is used for Modified atmospheric packaging

Low density polyethylene

- 102) optimum temperature for tuberisation of potato 18-20
- 103) First genetic improved variety of elephant foot yam Sree athira
- 104) first intervarietal hybrid variety of grater yam Sree Shilpa
- 105) Allicin is a Amino acid
- 106) Self pollination in cross pollinated crops results in the devolopment of Inbred line
- 107) Inbred line is crossed with open pollinated crops is known as Top cross
- 108) Cross between cytoplasmic male sterile line and a male fertile line is done. The F1 plants produced will be? F1 strile
- 109) In CMS system which line is absent R line
- 110) Which among the following are Water soluble carotenoids Xanthin and lutin
- 111) Sweet gourd is Dioecious
- 112) Size of Sweet potato cutting used for propogation Young cutting with 3 4 nodes and middle top portion
- 113) Pithiness in raddish
- 114) Toughing of canned beans is due to Ca
- 115) Horse bean is the common name of Broad bean
- 116) Pencil strip is due to Excess phosphorus
- 117) Post harvest treatment of onion to reduce sprouting CIPC
- 118) Cavity spot of carrot is due to High k and low ca
- 119) Chilling injury in Tomato develops due to long storage at a temperature of 0-10 degree Celsius
- 120) synthesis of auxin occure in which part of the plant? Meristem tissue
- 121) Glucose in tissue culture act as a Carbon source





- 122) Maximum production of cells on comercial purpose is observed in which system **Bioreactor**
- 123) A. Stackling is used in raddish for seed production.
- B. Stackling produce high seed yield Only A is right
- 124) Stackling is left in winter season and then lifted in autumn season is used for

Root to seed method

- 125) Propagation of chow is done by Sprouted fruit
- 126) Cross pollination in chekrumanis is due to Protogyny
- 127) Solanin in potato is reduced by which operation Earthing up
- 128) Which crop having Edible tuberous roots Winged bean
- 129) Acridity in elephant foot yam is due to Calcium oxalate
- 130) Which among the following is a Grain type amaranthus spp. A. Hypocondricus
- 131) Which off the following crop is belong to monocotyledon family Asparagus
- 132) Spear is the edible part of Asparagus
- 133) French bean seed rate 60-65 days bush, 25-30 pole type
- 134) in mutation breeding, which generation shows ressive
- 135) curing temperature for potato 25 degree Celsius
- 136) Parthenocarpic seeds are developed from Egg cell
- 137) Parthenocarpy is induced by Auxin
- 138) Seed viability is tested by Tetrazolium test
- 139) Asian carrot character Anthocyanin rich with distinct core
- 140) High profile crop under protected cultivation Bell pepper
- 141) Vernalisation temperature for flowering of cole crops 4-10 and 40-60 days
- 142) immature seed having high GA3
- 143) Tip burn in lettuce is due to Ca deficency
- 144) Pencil strips and cracked stem are the physiological disorder of Celery

Note – This is a drafted answer key; final answer key by ASRB may have changes. Get in touch with Horti Medium if you have queries or suggestions about the key.