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- 1. Vitamin C content is found maximum in
 - (A) Barbados cherry-
 - (B) Aonla
 - (C) Guava
 - (D) Lime
- 2. Pusa Srijan is a dwarfing rootstock of
 - (A) Mango
 - (B) Papaya
 - (C) Guava
 - (D) Apple
- 3. Which among the following is not a pome type of fruit?
 - (A) Apple
 - (B) Pear
 - (C) Loquat ~
 - (D) Plum
- 4. Hen and chicken disorder is found in
 - (A) Mango
 - (B) Grape ✓
 - (C) Guava
 - (D) Litchi
- 5. Which among the following is a climacteric fruit?
 - (A) Cherry
 - (B) Litchi
 - (C) Strawberry
 - (D) Papaya 🗸
- 6. Top working in old and uneconomical bael trees is done during
 - (A) February
 - (B) March
 - (C) May
 - D) June ~

- 7) Artocarpus heterophyllus is a
 - (A) Diploid
 - (B) Triploid
 - (C) Tetraploid
 - (D) Hexaploid ~
- 8. Passion fruit cannot be propagated through
 - (A) Seeds
 - (B) Layering ~
 - (C) Cutting
 - (D) Grafting &
- 9. Yield of golden passion fruit per hectare is
 - (A) 5 10 tons
 - (B) 10 15 tons
 - (C) 20 25 tons
 - (D) 30 50 tons
- 10. Avocado has originated in
 - (A) Central America
 - (B) China
 - (C) South India
 - (D) Japan
- 11. Giant Kew is an important variety of
 - (A) Sapota ح
 - (B) Papaya
 - (C) Pineapple
 - (D) None of the above
- 12. The apple of the tropics is
 - (A) Mango
 - (B) Papaya
 - (C) Pineapple
 - (D) Guava 🗸



- 13. Indian State with the reputation of growing the best guava in the country as well as in the world is
 - (A) Uttar Pradesh 🗸
 - (B) Bihar
 - (C) Madhya Pradesh
 - (D) Maharashtra
- 14. Hasta bahar crop regulation in pomegranate is done during
 - (A) February March
 - (B) June July
 - (C) September October -
 - (D) November December
- 15. Family of custard apple is
 - (A) Apocynaceae
 - (B) Annonaceae ~
 - (C) Rhamnaceae~
 - (D) Moraceae
- 16. Which of the following fruit crop has axillary bearing habit?
 - (A) Jackfruit
 - (B) Bael
 - (C) Loquat
 - (D) Ber
- 17. Which of the following pair of citrus is incorrectly matched?
 - (A) Citrus limettoides Sweet lime
 - (B) Citrus paradisi Rough lemon
 - (C) Citrus medica Citron
 - (D) Citrus aurantifiolia Sour lime

- Storage life of jamun fruits at room temperature is
 - (A) 4 days
 - (B) 6 days
 - (C) 8 days
 - (D) 10 days
- 19. Inflorescence of banana has
 - (A) Male flowers
 - (B) Female flowers
 - (C) Hermaphrodite flowers ~
 - (D) All of the above
- 20. Filler plants are planted in
 - (A) Rectangular system
 - (B) Quincunx system <
 - (C) Hexagonal system
 - (D) Square system
- 21. The term *Kalpavriksha*/tree of heaven is associated with
 - (A) Oil palm
 - (B) Coconut ~
 - (C) Cashew
 - (D) Rubber
- 22. The largest producer and consumer of arecanut in the world is
 - (A) China
 - (B) USA
 - (C) Japan
 - (D) India '
- 23. The somatic chromosome number (2n) of arecanut is
 - (A) 24
 - (B) 30
 - (C) 32
 - (D) 40



- 24. Cashew is native of
 - (A) India
 - (B) Brazil
 - (C) China
 - (D) Germany
- 25. Cherelle wilts is a physiological disorder of
 - (A) Cocoa
 - (B) Date palm
 - (C) Oil palm
 - (D) Coffee
- 26. The genus name Cocos and popular name Coconut are derived from
 - (A) Greek word
 - (B) Japanese word
 - (C) Latin word
 - (D) Spanish word
- 27. Kondali or stem wasting is a non-parasitic disorder due to toxicity of
 - (A) Magnesium
 - (B) Boron
 - (C) Copper
 - (D) Potassium
- 28. The highest and cheapest edible oil yielding crop is
 - (A) Oil palm ~
 - (B) Coconut
 - (C) Palmyrah palm
 - (D) Date palm

- 29. Removal of young and early male and female inflorescence and bunches is called
 - (A) Pruning
 - (B) Training
 - (C) Ablation
 - (D) Trimming
- 30. Toddy, a fermented drink is prepared from
 - (A) Palmyrah palm
 - (B) Date palm ~
 - (C) Oil palm
 - (D) Coconut
- 31. The alcohol content in a fully fermented toddy is about
 - (A) 5%
 - (B) 10%
 - (C) 15% ~
 - (D) 25%
- 32. Coffee is a
 - (A) Short day plant
 - (B) Long day plant ~
 - (C) Day neutral plant
 - (D) Facultative long day plant
- (33) Pollination in rubber is mainly carried
 - (A) Wind
 - (B) Bats~
 - (C) Insects
 - (D) None of the above



- 34. Which Indian State is not a part of Southern Plateau and hills zone?
 - (A) Andhra Pradesh
 - (B) Karnataka
 - (C) Tamil Nadu
 - (D) Kerala
- 35. In meteorology, the word "meteoro" has been taken from _____ language.
 - (A) French
 - (B) Latin
 - (C) Greek ◆
 - (D) Japanese
- 36. Which statement among the following is incorrect?
 - (A) Arid climate having less than 3.0 July humid months.
 - (B) Semiarid wet climate having 4.5 7.0 humid months.
 - (C) Semiarid dry climate having 4.5 humid months.
 - (D) Humid climate having more than 7.0 humid months.
- 37. The study of climate over relatively smaller areas between 10 and 100 km across is known as
 - (A) Microclimate ~
 - (B) Mesoclimate
 - (C) Macroclimate
 - (D) None of the above
- 38. Medium range weather forecasting by agro-advisory service gives forecasting up to
 - (A) 10 days
 - (B) 15 days
 - (C) 20 days
 - (D) 30 days

- 39. Atmospheric pressure is measured through
 - (A) Hygrometer
 - (B) Anemometer
 - (C) Barometer /
 - (D) None of these
- 40. Western disturbances affect Indian weather during
 - (A) April June
 - (B) July August ~
 - (C) September November
 - (D) December March
- 41. Weather conditions conducive within a fortnight before an outbreak of potato blight
 - (A) At least 4 hours of dew in the night
 - (B) Minimum temperature < 10°C during night
 - (C) Rainfall of at least 0.1 mm in the 24 hours following the dew night
 - (D) All of the above ₩
- 42. Total approximate rainfed area in central plateau and hills is
 - (A) 25%
 - (B) 40%
 - (C) 50%
 - (D) 75%
- 43. The warmest full year so far was in
 - (A) 1990
 - (B) 1997
 - (C) 2000
 - (D) 2005



- 44. National Centre for Medium Range Weather Forecasting (NCMRWF) was established in
 - (A) 1988
 - (B) 1990
 - (C) 1995
 - (D) 1999
- 45. Form of rainfall when precipitation occurs by striking a warm and humid air against a mountain barrier and is forced to rise to condense is known as
 - (A) Conventional rainfall
 - (B) Orographic rainfall ~
 - (C) Cyclonic rainfall
 - (D) Frontal rainfall
- 46. Commercial processing of vegetables in India is done to the extent of
 - (A) 2%
 - (B) 5%
 - (C) 10%
 - (D) 15%
- 47. ICAR Indian Institute of Vegetable Research is located at
 - (A) Lucknow
 - (B) Kanpur
 - (C) Varanasi <
 - (D) Karnal
- 48. Which among the following is not a member of chenopodiaceae family?
 - (A) Palak
 - (B) French Spinach
 - (C) New Zealand Spinach
 - (D) Garden beet

- 49. Characteristic pungency in garlic is due to
 - (A) Diallyl sulphide
 - (B) Allyl propyl disulphides ≥
 - (C) Isothiocyanates
 - (D) Thiocyanates
- 50. Vernalization effect in cabbage, European carrot, etc. could be obtained by application of gibberellin at
 - (A) 100 150 ppm
 - (B) 200 250 ppm /
 - (C) 300 350 ppm
 - (D) 400 ppm
- 51. The area of organic land with respect to the total agricultural land of the world is
 - (A) Less than 1%
 - (B) Less than 3%
 - (C) Less than 5%
 - (D) Less than 10%
- 52. Leguminous cover crop which can be applied in organic vegetable farming are
 - (A) Alfalfa
 - (B) Cowpea
 - (C) Desmodium
 - (D) All of the above ~
- 53. Potato is a native of
 - (A) India
 - (B) China
 - (C) South America
 - (D) Japan

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- 54. Tomato was introduced in India by
 - (A) Mughals
 - (B) Britishers
 - (C) Portuguese
 - (D) Chinese
- 55. Chilli is a self-pollinated crop but a high degree of cross pollination up to makes it as facultative cross-pollinated crop.
 - (A) 28% ~
 - (B) 48%
 - (C) 68%
 - (D) 75%
- 56. Which is not a rainy season vegetable crop?
 - (A) Amarnath
 - (B) Cowpea
 - (C) Chilli
 - (D) Cluster bean
- 57. Moderately salt tolerant vegetable is
 - (A) Celery
 - (B) Snake gourd
 - (C) Cucumber
 - (D) Kale -
- 58. Trench cultivation is done by farmers of
 - (A) Himachal Pradesh
 - (B) Jammu and Kashmir
 - (C) Both (A) and (B) -
 - (D) None of the above

- (59.) Brinjal variety resistant to phomopsis blight is
 - (A) Pusa Purple Long
 - (B) Pusa Bhairav
 - (C) Pusa Uttam €
 - (D) Pusa Kranti
- 60. Commercial F₁ hybrids in tomato are developed by hand emasculation and pollination by planting female and male parents in the ratio of
 - (A) 10:1
 - (B) 12:1
 - (C) 15:1
 - (D) 18:1
- 61. Isolation distance for foundation seed production in cucurbits should be
 - (A) 400 m
 - (B) 800 m
 - (C) 1000 m ~
 - (D) 1500 m
- 62. Pusa Vishesh is a variety of
 - (A) Bitter gourd
 - (B) Ash gourd
 - (C) Bottle gourd
 - (D) Ridge gourd
- 63. Seed rate for early crop of cabbage is
 - (A) 375 g
 - (B) 500 g ~
 - (C) 750 g
 - (D) 1000 g
- 64. Blindness in cauliflower is due to
 - (A) Extremely low temperature
 - (B) Mechanical injury to small plants
 - (C) Insect pests attack
 - (D) All of the above



- 65. Pollination in amaranth is caused by
 - (A) Insects
 - (B) Wind~
 - (C) Birds
 - (D) Water
- 66. Leaf rosetting in apple and pear is a deficiency symptom of
 - (A) K <
 - (B) Mo
 - (C) Zn
 - (D) B
- 67. In which apple species, seeds are produced by apomixis?
 - (A) Malus sikkimensis
 - (B) M. hupensis
 - (C) M. sergenii
 - (D) All of the above
- 68. Which of the following statement is false regarding asexual method of propagation?
 - (A) Plants are true to type to their mother plants
 - (B) Plants possess short juvenile phase
 - (C) Plants have long life ~
 - (D) Plants are smaller in stature
- 69. Acid used in acid scarification in sexual propagation is
 - (A) Sulphuric acid
 - (B) Nitric acid
 - (C) Hydrochloric acid /
 - (D) Formic acid

- 70. Mango cannot be propagated asexually through
 - (A) Veneer Grafting
 - (B) Cleft Grafting
 - (C) Tongue Grafting
 - (D) Epicotyl Grafting
- Specialized stem structure which grows horizontally at or just below the ground surface is called
 - (A) Rhizome
 - (B) Sucker
 - (C) Offshoots
 - (D) Corm
- 72. Phenomenon in which seeds germinate without maturation drying in the fruits while still attached to the plant is known as
 - (A) Apomixis
 - (B) Parthenocarpy
 - (C) Ripening
 - (D) Vivipary
- 73. Which plant growth regulator is a potent germination inhibitor?
 - (A) Auxins
 - (B) Abscisic acid
 - (C) Cytokinins
 - (D) Gibberellins
- 74. In tissue culture, removal of cell wall around the cytoplasm is known as
 - (A) Callus culture
 - (B) Pollen culture
 - (C) Protoplast culture
 - (D) Nodule culture

- Geotropism in plants is associated with
 - (A) Auxins
 - (B) Cytokinins
 - (C) Ethylene
 - (D) Gibberellins
- 76. Media with low moisture holding capacity is
 - (A) Sphagnum moss
 - (B) Perlite ~
 - (C) Peat
 - (D) Vermiculite
- 77. Inquiry Into Plants treatise was written by
 - (A) Shen Nung
 - (B) Hippocrates
 - (C) Aristotle
 - (D) Theophrastus
- 78 Father of Modern Medicine is
 - (A) Hippocrates
 - (B) Pliny
 - (C) Halen
 - (D) Rhazes
- 79. Medicinal plant used in cancer therapy is
 - (A) Rauvolfia
 - (B) Lemongrass
 - (C) Periwinkle ~
 - (D) Kewda
- 80. Arka Upkar is a high yielding clonal selection of
 - (A) Periwinkle
 - (B) Dioscorea
 - (C) Rauvollia
 - (D) Ocimum

- 81. Yield of Aloe vera on a fresh weight basis will be around
 - (A) 10,000 12,000 kg/ha
 - (B) 18,000 20,000 kg/ha
 - (C) 22,000 25,000 kg/ha
 - (D) 28,000 30,000 kg/ha
- 82. King of Spices term is attributed to
 - (A) Cardamom
 - (B) Cumin
 - (C) Black pepper V
 - (D) Coriander
- 83. Cumin crop matures in about
 - (A) 3-4 months
 - (B) 5-6 months ~
 - (C) 7-8 months
 - (D) In one year
- 84. Seed rate of a pure coriander crop varies from
 - (A) 5-10 kg/ha
 - (B) 10-15 kg/ha
 - (C) 15-20 kg/ha
 - (D) 20-25 kg/ha
- 85. Holy smoke, Egyptian incense used in fumigation and embalming had _____as one of its components.
 - (A) Fenugreek -
 - (B) Ginger
 - (C) Coriander
 - (D) Discorea



- 86. Which of the following plant was grown for adding fragrance to Hanging Garden of Babylon?
 - (A) Fenugreek
 - (B) Ocimum √
 - (C) Kewda
 - (D) Coriander
- 87. Birth control oral contraceptive pills are prepared from
 - (A) Dioscorea /
 - (B) Cumin
 - (C) Periwinkle
 - (D) Rauvolfia
- 88. Largest producer of diosgenin in the world is
 - (A) Mexico
 - (B) Japan
 - (C) France
 - (D) China
- 89. The optimum altitude for growing cardamom is
 - (A) 400 m AMSL
 - (B) 1000 m AMSL
 - (C) 1800 m AMSL
 - (D) 2000 m AMSL
- 90. Turmeric seed rate per hectare is
 - (A) 1000 kg
 - (B) 2000 kg ~
 - (C) 2500 kg
 - (D) 3000 kg
- 91. Kewada belongs to family
 - (A) Scrophulariaceae
 - (B) Apocynaceae
 - (C) Pandanaceae
 - (D) Malvaceae

- 92. Botanically, fennel plants are
 - (A) Annual
 - (B) Biennial
 - (C) Perennial
 - (D) All of the above
- 93. The first evidence of an ornamental plant from a seal from Mohen-jo-daro was of
 - (A) Ficus benjamina
 - (B) Ficus infectoria
 - (C) Ficus religiosa
 - (D) Ficus elastica
- 94. First Mughal emperor to enter Kashmir and establish a garden was
 - (A) Akbar
 - (B) Babur
 - (C) Jahangir
 - (D) Shah Jahan
- 95. Vatsayana did not describe which of the following garden?
 - (A) Pramododyan
 - (B) Passage garden
 - (C) Udyan
 - (D) Nandanavana
- 96. Goddess Saraswati is associated with
 - (A) Semal
 - (B) Amaranthus
 - (C) Lotus
 - (D) Bauhinia
- 97. Ficus retusa is commonly known as
 - (A) Bodhi tree
 - (B) Banyan tree
 - (C) Chilkan
 - (D) Pakar



- 98. Shrubs most commonly used in India for making topiary
 - (A) Clerodendron inerme
 - (B) Duranta plumieri
 - (C) Cupressus macrocarpa
 - (D) All of the above ~
- 99. Medium light conditions are met at
 - (A) North window <
 - (B) South window
 - (C) East or West window
 - (D) All of the above
- 100. House plants grown in poor light will show symptoms of
 - (A) Etiolation
 - (B) Pale leaves
 - (C) Lanky growth
 - (D) All of the above ~
- 101. Flat and hill gardens of Japanese gardens were developed during
 - (A) Nara period
 - (B) Heian period
 - (C) Kamakura period
 - (D) Muromachi period
- 102. Rose species which is very hardy and resistant to cold is
 - (A) Rosa rugosa
 - (B) Rosa moschata
 - (C) Rosa foetida
 - (D) Rosa centifolia
- 103. Tagetes patula is
 - (A) Diploid
 - (B) Triploid
 - (C) Tetraploid
 - (D) Hexaploid

- 104. Minimum temperature required for bud initiation in thermopositive chrysanthemum cultivars is
 - (A) 10°C
 - (B) 13°C
 - (C) 16°C
 - (D) 27°C
- 105. The first World Orchid Conference was held in
 - (A) Australia
 - (B) USA
 - (C) Singapore
 - (D) UK
- 106. In France and Holland, perfume is extracted from ______ coloured flowers of carnation.
 - (A) Dark
 - (B) Light
 - (C) Mixed
 - (D) All of the above
- 107. Origin of gladiolus is
 - (A) South Africa
 - (B) France
 - (C) England
 - (D) North America
- 108. World famous jasmine oil is extracted ______ from flowers of
 - (A) Jasminum sambac
 - (B) J. grandiflorum
 - (C) J. auriculatum
 - (D) J. flexile



- Orange, Sebaculis Red and Lutea Yellow are cultivars of
 - (A) Crossandra
 - (B) Marigold
 - (C) Dahlia
 - (D) Gerbera
- 110. Group of dahlia which has full double flowers
 - (A) Ball
 - (B) Pompon
 - (C) Cactus
 - (D) All of the above
- 111. Minimum diameter of tuberose bulbs suitable for planting is
 - (A) 1.0 cm
 - (B) 1.5 cm
 - (C) 2.5 cm ~
 - (D) 3.0 cm
- 112. Gerbera can be grown in
 - (A) Tropical climate
 - (B) Sub-tropical climate
 - (C) Temperate climate
 - (D) All of the above
- 113. June grass is botanically known as
 - (A) Poa nemoralis
 - (B) Poa pratensis
 - (C) Agrostis tenuis
 - (D) Lolium perenne
- 114. Which among the following is not a flowering hormone?
 - (A) Florigen
 - (B) Anthesin
 - (C) Vernalin
 - (D) Kinetin

- 115. Hormone which helps the plants to cope with stress is
 - (A) ABA
 - (B) IBA
 - (C) GA
 - (D) Kinetin
- 116. Total labour saving through drip irrigation is up to
 - (A) 20%
 - (B) 30% V
 - (C) 50% W
 - (D) 70%
- 117.)Biofertilizers provide
 - (A) Nitrogen
 - (B) Hormones
 - (C) Amino acids
 - (D) All of the above
- 118. In hydroponics, plants grow ___ faster than soil grown plants.
 - (A) 10%
 - (B) 20%
 - (C) 40%
 - (D) 50%
- 119. Penetrometer measures _____ of fruits.
 - (A) Freshness
 - (B) Firmness
 - (C) TSS
 - (D) All of the above
- 120. Gene transfer in plants can be accomplished by
 - (A) Sexual methods
 - (B) Asexual methods [√]
 - (C) Sexual and asexual methods
 - (D) None of the above



- 121. Waxing of fruits help in
 - (A) Reducing moisture loss
 - (B) Improve appearance of fruits
 - (C) Reduce incidence of storage diseases
 - (D) All of the above V
- 122. Water stress in plants results in
 - (A) Reduced absorption of nutrients
 - (B) Yield and productivity goes down
 - (C) Promote more roots than shoots formation
 - (D) All of the above V
- 123. The failure of seeds/organs to grow under unfavourable environment has been referred to as
 - (A) Enforced dormancy
 - (B) Imposed dormancy
 - (C) Quiescence
 - (D) All of the above
- 124. Exposure of seeds to low temperature for a certain period is known as
 - (A) Photoblastism
 - (B) Stratification
 - (C) Scarification
 - (D) Quiescence
- 125. Seed samples submitted by a farmer, seed grower, cooperative or seed farm are known as
 - (A) Service sample
 - (B) Submitted sample
 - (C) Working sample
 - (D) Certified sample

- 126. Seedlings which carry abnormality caused by physiological or biochemical factors such as chlorophyll deficiency are termed as
 - (A) Seedlings with slight defect
 - (B) Damaged seedlings
 - (C) Deformed seedlings
 - (D) Decayed seedlings
- 127. The schemes for seed multiplication and distribution came into existence in all the States of India during
 - (A) First Five Year Plan (1951 56)
 - (B) Second Five Year Plan (1956 – 61)
 - (C) Third Five Year Plan (1961 66)
 - (D) Fourth Five Year Plan (1969 74)
- 128. National Seed Corporation was established in
 - (A) 1950
 - (B) 1953
 - (C) 1963 ~
 - (D) 1965
- 129. High Yielding Varieties Programme (HYVP) was launched by Govt. of India in
 - (A) 1961 ^C
 - (B) 1966
 - (C) 1970
 - (D) 1976
- 130. Successful implementation of High Yielding Varieties Programme (HYVP) was possible due to cooperation of
 - (A) National Seed Corporation
 - (B) State Agricultural Departments
 - (C) Private Entrepreneurs
 - (D) All of the above



- 131. Minimum standard of genetic purity for certified seeds is
 - (A) 79.0%
 - (B) 89.0%
 - (C) 95.0%
 - (D) 99.0% ~
- Storage duration of carry-over seeds is usually
 - (A) 6 12 months
 - (B) 12 36 months
 - (C) 40 48 months
 - (D) 50 60 months
- 133. Yield of hybrid seeds produced after crossing with two parents is
 - (A) Less than synthetic variety
 - (B) More than synthetic variety
 - (C) More than pure line
 - (D) Equal with pure line
- 134. Random change in the gene frequency in a relatively small sample or population is known as
 - (A) Genetic drift
 - (B) Mutation
 - (C) Chromosomal aberrations
 - (D) Crossing over
- 135. Seed imbibition involves
 - (A) Absorption of water
 - (B) Release of gases
 - (C) Leakage of solutes
 - (D) All of the above

- 136. Weed cast 2.D is a program that forecasts three aspects of weed phenology that are
 - (A) Weed emergence rate, flowering duration and vegetative duration
 - (B) Weed emergence potential, seedling height and emergence timing
 - (C) Weed emergence potential, rate of propagation and flowering timing
 - (D) Weed emergence potential, vegetative stage and seed maturation stage
- 137. Which of the following statement is correct?
 - (A) Tillage, hand weeding, mowing, mulching, burning and flooding are all cultural practices that affect weed management
 - (B) Conventional tillage does not vary according to geographical region
 - (C) Conservation tillage has been defined as any tillage system that leaves at least 30% residue cover on that soil surface after planting
 - (D) None of the above
- 138. Prickly pear or cactus (*Opuntia* spp.) in Australia is controlled by moth bore
 - (A) Tyria jacobaeae
 - (B) Cactoblastis cactorum
 - (C) Chrysolina spp.
 - (D) Longitarsus jacobaeae



- 139. Which of the following weed is not associated with pea?
 - (A) Cyperus rotundus
 - (B) Chenopodium album
 - (C) Fumaria parviflora
 - (D) Argemone maxicana 🗸
- 140. Who coined the term allelopathy?
 - (A) Jethro Tull
 - (B) Hans Molisch
 - (C) Duke Muller /
 - (D) V.S. Mani
- 141. Which of the following allelochemical reduces cell elongation in cucumber?
 - (A) Ferulic and cinnamic acid
 - (B) Complier and cineol
 - (C) Ferulic, p-courmeric and vanillic acid
 - (D) Sorgolene
- 142. Which one of the following is most suitable bio-herbicide to control weed Johnson grass?
 - (A) De Vine
 - (B) Collego
 - (C) Bipolaris
 - (D) Biolophos
- 143. Which one of the following is a non-selective herbicide?
 - (A) Glufosinate-ammonium picloram
 - (B) Paraquat
 - (C) Glyphosate
 - (D) All of the above

- 144. Which of the following is the general guideline laid at national level for selection of watershed villages in dry region?
 - (A) Watershed which has a larger or sizable population of downtrodden people
 - (B) Preference given to the villages community that has already been successfully organized various programmes such as development of women and children in rural areas, joint forest management, social forestry, etc.
 - (C) A contiguous watershed to the already developed or selected watershed
 - (D) All of the above
 - 145. Which of the following components of watershed treatments plan is considered to be agronomic measures in agriculture lands?
 - (A) Bench terracing
 - (B) Strip cropping
 - (C) Contour and graded bunds
 - (D) Contour cultivation
 - 146. Which of the following is the strategic approach for dryland farming?
 - (A) Selection for one variety in a crop is strategic approach under rainfed farming
 - (B) The Dapok system of seedlings raising in rice
 - (C) Planning of crops cannot be decided on the basis of predictions
 - (D) Watershed should not be planned to conserve runoff losses in corner of field



- 147. What do you mean by agriculture drought?
 - (A) A situation when there is significant decrease (25%) of normal rainfall over an area
 - (B) It occurs when both rainfall and soil moisture are inadequate during growing season to support a healthy crop
 - (C) If the rainfall received is less than 50% of a normal value for a consecutive period of more than 20 days in a month
 - (D) Meteorological drought, if prolonged will result in hydrological drought with the marked depletion of surface and ground water level
- 148. The term 'water harvesting' was used for the first time by which of the following scientist?
 - (A) Myors
 - (B) Nabatean
 - (C) Reddy
 - (D) Kanitkar
- 149. The Government of India launched a Watershed Management Programme in which of the following Five Year Plans to develop dryland areas on the basis of watershed?
 - (A) Third
 - (B) Fourth
 - (C) Fifth
 - (D) Seventh

- 150. Which of the following statement is true about rainfed farming?
 - (A) Cultivation of crops in region where average rainfall is more than 1150 mm
 - (B) Cultivation of crops in area where annual rainfall is more than 750 mm but less than 1150 mm
 - (C) Cultivation of crops in area where annual rainfall is less than 750 mm
 - (D) None of the above
- 151. Which of the two exotic parasitoids have given promising results for the suppression of San Jose scale in apple?
 - (A) Encarsia perniciosi and Aphytis proclia
 - (B) Encarsia perniciosi and Ooencyrtus erionota
 - (C) Aphytis proclia and Leptomastix dactylopii
 - (D) Ooencyrtus erionota and Aphytis proclia
- 152. The modern concept of pest management is based on which of the following principles?
 - (A) Ecological principles
 - (B) Sustainable principles
 - (C) Economical principles
 - (D) Physiological principles

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- 153. Name of scientist who reported insecticidal properties of DDT in Switzerland was
 - (A) Paul Muller, 1939
 - (B) R. H. Painter, 1935
 - (C) Rachel Carson, 1945 🗸
 - (D) R. F. Smith, 1949
- 154. Destructive Insects and Pest Act was introduced in India during the year
 - (A) 1915
 - (B) 1917
 - (C) 1916
 - (D) 1914 V
- is considered to be responsible for completely wiping out the narcissus industry of Britain?
 - (A) Meloidogyne spp.
 - (B) Ditylenchus dipsaci
 - (C) Ditylenchus destructor
 - (D) Pratylenchus penetrans
- 156. Which of the following is the most important quarantine nematode pest of potate?
 - (A) Root knot nematode (Meloidogyne incognita)
 - (B) Reniform nematode (Rotylenchulus reniformis)
 - (C) Root gall nematode (Meloidogyne javanica)
 - (D) Cyst nematode (Globodera rostochiensis)

- 157. Which of the following bud caterpillar causes severe damage to flower buds of gerbera?
 - (A) Spodoptera litura
 - (B) PLatyptilia molopias
 - (C) Leucinodes orbonalis
 - (D) Helicoverpa armigera
- 158. Which one of the following is a serious pest of grape in Karnataka?
 - (A) Shot hole borer (Xyleborus crassiusculus)
 - (B) Flea beetle (Scelodonta strigicollis)
 - (C) Thrips (Rhipiphorothrips cruentatus)
 - (D) Mealybug (Maconellicoccus hirsutus)
- 159. Who coined the term statistics?
 - (A) Sir Ronald Aylmer Fisher ✓
 - (B) Gottfried Achenwall
 - (C) Prasanta Chandra Mahalanobis
 - (D) Karl Pearson
- 160. A continuous distribution, grouped in classes is usually represented graphically by a
 - (A) Bar diagram
 - (B) Pie chart
 - (C) Frequency polygon
 - (D) Histogram

17



- Information or data collected on some characters is called
 - (A) Qualitative characters
 - (B) Quantitative characters
 - (C) Qualitative and quantitative characters
 - (D) None of the above
- 162. The primary data is gathered through
 - (A) A pre-designed experiment /
 - (B) Using fixed sampling technique
 - (C) Both (A) and (B) \checkmark
 - (D) None of the above
- 163. Numerical data presented in descriptive form are called
 - (A) Classified presentation
 - (B) Tabular presentation
 - (C) Graphical presentation
 - (D) Textual presentation
- 164. Number of nuts/bunches, number of leaves/trees, number of insects/hills are an example of
 - (A) Discrete variable
 - (B) Continuous variable
 - (C) Restricted constant
 - (D) Unrestricted constant

- 165. In an inclusive type of classification, the limits included are
 - (A) Lower limits
 - (B) Upper limits
 - (C) Either of the lower or upper limit
 - (D) Both lower and upper limits
- 166. Different forms of presentation of data are
 - (A) Textual form
 - (B) Tabular form
 - (C) Both (A) and (B)
 - (D) None of the above
- 167. When the information is pertaining to only one set of data then the tabulation is known as
 - (A) Dichotomy
 - (B) Manifold division
 - (C) Bivariate
 - (D) Simple table
- 168. Who gave the statement that "Farming system is a set of agro-economic activities that are inter-related and interact among themselves in particular 171 agrarian settings"?
 - (A) Fresco and Westphal (1988)
 - (B) Shaner et al. (1982)
 - (C) Ruthenberg (1971)
 - (D) Collinson (1979)

he objectives of farming system esearch can be met within the context fthree multidisciplinary "activity areas", mong which on-farm researches avolve

- A) The collection, collation and analysis of data on many factors characterizing the environment and farming system of a region
- (B) Studies of existing farming systems, on farm experimentation, studies of technology adoption and assessment of the impact of new technology all in relation to the farm household
- (C) Focussed research programme aimed at the development of components for improvement of existing systems or for the putting together of new system
- (D) Farmer participatory research in refining technologies of farming systems and provide feedback of farm problems to on-station researcher
- The nature of integrated farming system is
 - (A) Inter-related
 - (B) Inter-dependent
 - (C) Inter-linking
 - (D) All of the above
- 71. Which of the following tree is being grown in Kangeyam tract in Tamil Nadu along with fodder grass Cenchrus or fodder sorghum as intercrop in Sylvi-pasture system?
 - (A) Acasia nilotica
 - (B) Morus alba
 - (C) Acasia leucophicea
 - (D) Ficus infectoria

- 172. The crop which requires preparatory tillage is
 - (A) Arable crop
 - (B) Augmenting crop <
 - (C) Ley crops
 - (D) Nurse crop
- 173. The field at pre-emergence stage of cereal or tuber crops is tilled lightly so as to expose and uproot germinating broad-leaved weeds is known as
 - (A) Conservation tillage
 - (B) Zero tillage
 - (C) Blind tillage
 - (D) Minimum tillage
 - 174. The slope % for performing the tillage operations and planting along the contour lines in contour tillage is
 - (A) 1 − 2% ✓
 - (B) 3-5%
 - (C) 4-5%
 - (D) 3-4%
 - 175. Agriculture economics is meant to be a science as
 - (A) Positive science
 - (B) Normative science
 - (C) Both (A) and (B)
 - (D) None of the above
 - 176. Which one of the following is stingless species of honeybee in India?
 - (A) Apis dorsata
 - (B) Apis florea
 - (C) Apis mellifera
 - (D) Trigona iridipennis

- 177. Which one of the following honey can only be sold in non-local markets?
 - (A) Coorg honey
 - (B) Rubber tree honey
 - (C) Shain or sulah honey
 - (D) Kartiki honey
- 178. The economics of cultivation is dependent on several factors like
 - (A) Cost of land, labour and input
 - (B) Sale price of produce
 - (C) Both (A) and (B)
 - (D) None of the above
- 179. Under optimum growing conditions in the low-cost polyhouse, cucumber Pusa Sanyog can give a net return of
 - (A) Rs. 50/sq.m./season
 - (B) Rs. 63/sq.m./season
 - (C) Rs. 90/sq.m./season
 - (D) Rs. 45/sq.m./season
- 180. Which of the following statement is true about Diara cultivation?
 - (A) Cucurbitaceous vegetables are specially adapted for growing near riverbed due to their fibrous root system
 - (B) Cultivation of cucurbit vegetables in riverbed is a kind of vegetable forcing as the crops are grown during off-season on sand from July – October
 - (C) Both (A) and (B)
 - (D) None of the above

- 181. Nicking is very essential for hybrid seed set in hybrid seed production which can be achieved by the
 - (A) Staggered planting
 - (B) Chemical spray viz. urea, DAP or adapting the jerking and spray of sugar solution on late parent
 - (C) Withholding irrigations in early parent
 - (D) All of the above
- The economic return of mushroom cultivation enterprise is affected by
 - (A) Climate and mushroom type
 - (B) Time and unit size
 - (C) Cultivation method
 - (D) Spawn and compost quality
- 183. Which of the following does not fall under the horticulture based entrepreneurial opportunities?
 - (A) Mushroom grower
 - (B) Seed processor
 - (C) Nurseryman
 - (D) Manager cold storage
- 184. The word entrepreneur is originated from the
 - (A) French word
 - (B) Latin word ∨
 - (C) Greek word
 - (D) Arabic word
- Which one among the following i considered as first slow nitrogen release synthetic compound?
 - (A) Isobutylidene
 - (B) Crotonylidene
 - (C) Urea-formaldehyde complexes
 - (D) Magnesium ammonium phosphate



- 186. The product carrying a mark of FPO in an oval with two hanging strips is mandatory on packed containers of
 - (A) Processed fruits
 - (B) Processed vegetables
 - (C) Processed fruits and vegetables
 - (D) Processed fruits, vegetable and seed
- 187. Rainfall during hot weather period in which of the following State is of great importance for the early spring crop of rice?
 - (A) Uttar Pradesh
 - (B) Kerala
 - (C) Odisha V
 - (D) West Bengal
- 188. India receives most of its rainfall from
 - (A) Cyclonic depression and disturbances
 - (B) South-West monsoon
 - (C) North-East monsoon
 - (D) Both (B) and (C) V
- 189. Which of the following leaders laid the foundation of modern irrigation engineering in India?
 - (A) Dr. K. L. Rao and Sir Arthur Cotton
 - (B) Sir Proby Cauthy and Dr. K. L. Rao
 - (C) Dr. K. L. Rao and Capt. Dinshaw J. Dastur
 - (D) Sir Proby Cauthy and Sir Arthur Cotton

- 190. When plants are in soil with sufficient moisture, the water potential of plant leaves is likely to be in the region
 - (A) -0.2 to -0.8 Mpa
 - (B) 1 2 Mpa
 - (C) -0.5 to -1 Mpa
 - (D) 1 3 Mpa
- 191. Permanent wilting point refers to the condition when
 - (A) The soil moisture is depleted to a level of – 6.0 Mpa and plants die
 - (B) The soil moisture reaches around
 1.5 Mpa, several crops show
 wilting symptoms most of the day
 but do not die
 - (C) The soil moisture is sufficient after irrigation or rain, water deficits develop due to higher transpiration than absorption, especially on hot mid days
 - (D) The soil moisture depleted to
 2.5 Mpa, cannot meet the
 transpiration and plant wilt due to
 high sunlight intensity and wind
- 192. Transpiration rate is measured by
 - (A) Atmometer
 - (B) Psychrometer <
 - (C) Infrared thermometer
 - (D) Porometer
- 193. Smaller IW/Epan ratio means
 - (A) Irrigation at larger intervals
 - (B) Irrigation at smaller intervals
 - (C) Both (A) and (B)
 - (D) Irrigation schedule does not depend on IW/Epan ratio



- 194. Irrigation period can be formulated as
 - (A) $I_p = I_n/ET$ (crop) peak
 - (B) $I_p = M_{fc} M_{bi}/P_{cu}$
 - (C) $I_p = ET (crop) peak/I_n$
 - (D) $I_p = P_{cu}/M_{fc} M_{bi}$
- 195. Crop water use efficiency or consumptive water use efficiency (E_{cu}) can be formulated as
 - (A) $E_{cu} = (G + T + E_s)/Y = C_U/Y$
 - (B) $E_{cu} = (G + T + E_s + D)/Y = WR/Y$
 - (C) $E_{cu} = Y/(G + T + E_s) = Y/C_{II}$
 - (D) $E_{cu} = Y/(G + T + E_s + D) = Y/WR$
- 196. Which one of the following is the unavailable form of phosphate fertilizer?
 - (A) NH₄H₂PO₄
 - (B) $Ca(H_2PO_4)_2$
 - (C) CaHPO₄
 - (D) Ca₃(PO₄)₂.CaX
- 197. The effect of most potassium fertilizers on soil pH
 - (A) Increases the pH
 - (B) Decreases the pH
 - (C) Little or no effect @
 - (D) Both (A) and (B)

- 198. In Odisha, erosion by water is most acute. Which one of the forms of water erosion is not active among all the others?
 - (A) Rill erosion
 - (B) Sheet erosion
 - (C) Gully erosion
 - (D) Splash erosion ~
- 199. In general, the Cuttack region of soil is deficient in
 - (A) P_2O_5 and N \checkmark
 - (B) P_2O_5 and K_2O
 - (C) N and K₂O
 - (D) K₂O and P₂O₅
- 200. The soil of Odisha in general is
 - (A) Acidic in reaction —
 - (B) Alkaline in reaction
 - (C) Neutral in reaction
 - (D) Highly acidic in reaction