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1. Match the following diseases with their causal organisms :

Column—I (Common Name)	Column—II (Scientific Name)
(a) Toppling disease	(i) *Xiphinema index*
(b) Citrus nematode	(ii) *Tylenchulus semipenetrans*
(c) Lesion nematode	(iii) *Globodera rostochiensis*
(d) Fanleaf, yellow vein mosaic and vein banding virus	(iv) *Radopholus similis*
(e) Cyst nematode (iii)	(v) *Pratylenchus coffeae*

Select the **correct** code :

	(a)	(b)	(c)	(d)	(e)
(A) ✓	(iv)	(ii)	(v)	(i)	(iii)
(B)	(v)	(iii)	(iv)	(i)	(ii) ✗
(C)	(i)	(ii)	(iii)	(iv)	(v) ✗
(D)	(iv)	(ii)	(iii)	(i)	(v) ✗

2. Read the statements below, marked as **Assertion (A)** and **Reason (R)** and select the ***correct*** option.

Assertion (A) : Physical and biological sciences help farm management in defining optimum resource use.

Reason (R) : Farm management has to operate within the framework of farm resource restraints and production possibilities.

(A) Both **(A)** and **(R)** are ***true***, and **(R)** is the ***correct*** explanation of **(A)**

(B) Both **(A)** and **(R)** are ***true***, but **(R)** is not the ***correct*** explanation of **(A)**

(C) **(A)** is ***true***, but **(R)** is ***false***

(D) **(A)** is ***false***, but **(R)** is ***true***

3. Match the following and choose the ***correct*** answer :

Column—I	Column—II
(a) Kurtosis	(i) Shape of distribution
(b) Skewness	(ii) Second Quartile
(c) Moment (i)	(iii) Measure of convexity of curve
(d) Median (ii)	(iv) Degree of asymmetry

	(a)	(b)	(c)	(d)
(A) ✓	(iii)	(iv)	(i)	(ii)
(B)	(ii)	(iv)	(i)	(iii) ✗
(C)	(iv)	(iii)	(i)	(ii)
(D)	(i)	(ii)	(iii)	(iv) ✗

4. Match the following mushrooms with their botanical names :

Column—I	Column—II
(a) White button mushroom	(i) *Calocybe indica*
(b) Paddy straw mushroom (iv)	(ii) *Lentinula edodes*
(c) Shiitake mushroom	(iii) *Volvariella volvacea*
(d) Milky mushroom	(iv) *Agaricus bisporus*

	(a)	(b)	(c)	(d)
(A) ✓	(iv)	(iii)	(ii)	(i)
(B)	(i)	(iii)	(iv)	(ii)
(C)	(iii)	(ii)	(iv)	(i) ✗
(D)	(iv)	(ii)	(iii)	(i) ✗

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5. Which of the following is/are the way(s) of protection against climate change in India?

(A) Aiming by the industrialized countries for the reduction of emissions of harmful gases

(B) Minimizing the impacts of global warming on communities and to build adaptive capacities, wherever possible

(C) Both (A) and (B)

(D) None of the above

6. Match the following plant nutrients with their primary functions :

Column—I	Column—II
(a) Magnesium (Mg)	(i) Influences the formation of some growth hormones
(b) Zinc	(ii) Helps in utilization of iron during chlorophyll synthesis
(c) Copper	(iii) Imparts dark green colour to leaves
(d) Boron	(iv) Is associated with the calcium metabolism

	(a)	(b)	(c)	(d)
(A)	(ii)	(iv)	(i)	(iii)
(B)	(iii)	(i)	(ii)	(iv)
(C)	(i)	(iii)	(iv)	(ii)
(D)	(iii)	(ii)	(i)	(iv)

7. Corrugation refers to

(A) applying irrigation through shallow furrows made for intercultivation

(B) allowing water into every furrow at each irrigation

(C) irrigation through furrows laid along the contour

(D) application of water to the subsurface soil through underground perforated pipes

8. Read the statements below, marked as **Assertion (A)** and **Reason (R)** and select the ***correct*** option :

Assertion (A) : Interaction of irrigation, fertilizers and plant population in synergy is a potent tool in nature for getting a large effect from small resources.

Reason (R) : The release of synergistic interactions provides the best possible means of enhancing the cost-benefit ratio. Any single practice, unless it forms part of synergistic package of technology, will not yield the return it is capable of.

(A) Both **(A)** and **(R)** are ***true***, and **(R)** is the ***correct*** explanation of **(A)**

(B) Both **(A)** and **(R)** are ***true***, but **(R)** is not the ***correct*** explanation of **(A)**

(C) **(A)** is ***true***, but **(R)** is ***false***

(D) **(A)** is ***false***, but **(R)** is ***true***

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9. Match the following weeds with their botanical names :

Column—I	Column—II
(a) Dodhak	(i) *Cirsium arvense*
(b) Tandla	(ii) *Euphorbia hirta*
(c) Leh	(iii) *Argemone mexicana*
(d) Satyanashi	(iv) *Digera arvensis*

	(a)	(b)	(c)	(d)
(A)	(i)	(iv)	(iii)	(ii)
(B)	(ii)	(i)	(iv)	(iii)
(C)	(iii)	(ii)	(iv)	(i)
(D)	(ii)	(iv)	(i)	(iii)

10. According to Bateman (1947), the extent of genetic contamination in seed fields due to natural crossing depends upon which of the following factor(s)?

(A) Isolation distance

(B) Pollinating agent

(C) Breeding system of species

(D) All of the above

11. In mango-based multistorey cropping system, which crops can be grown as understorey crops?

(A) Radish, Cucumber

(B) Guava, Colocasia

(C) Jackfruit, Amla

(D) Banana, Guava

12. Which of the following is/are the primary objective(s) of seed programmes?

(A) The systematic increase of superior varieties

(B) The identification of new varieties and their rapid increase under appropriate and generally accepted names

(C) The provision of a continuing supply of comparable material by careful maintenance

(D) All of the above

13. In divergent fluctuations, when demand is less elastic than that of supply and the equilibrium between demand and supply is disturbed, then

(A) demand is less than supply

(B) supply is less than demand

(C) demand equals to supply

(D) there is no change in demand and supply

14. In dryland horticultural crops, leaf shedding generally occurs during _____, where as flowering and fruiting occur during _____.

(A) summer; rainy season

(B) rainy season; winter

(C) winter; summer

(D) spring; autumn

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15. Which of the following statement(s) regarding the Law of Substitution is ***incorrect***?

I. Any produce can be produced by using only one specific combination of inputs

II. Any producer is interested in minimizing the cost for a given level of output

III. The cultivator has to decide how two inputs should be combined to obtain a particular quantity of output

IV. The producer aims to maximize the cost for given level of output

(A) I only

(B) I and IV only

(C) I, II and III only

(D) III and IV only

16. The statistical test used to compare two variances is the

(A) Z-test

(B) Chi-square test

(C) Student's t-test

(D) F-test

17. When data is collected on each and every individual in a population, it is called

(A) sampling

(B) randomization

(C) complete enumeration

(D) stratification

18. Where is ICAR-Directorate of Mushroom Research situated?

(A) Nagpur

(B) New Delhi

(C) Bengaluru

(D) Solan

19. Match the following regions with the average rainfall :

Column—I	***Column—II***
(a) Middle Gangetic Plains	*(i)* 2000 to 4000 mm
(b) East Coast Plains and Hills	*(ii)* 1000 to 1200 mm
(c) West Coast Plains and Hills	*(iii)* Around 2800 mm
(d) Eastern Himalayan Zone	*(iv)* 900 to 1300 mm

	(a)	*(b)*	*(c)*	*(d)*
(A)	*(i)*	*(iii)*	*(iv)*	*(ii)*
(B)	*(ii)*	*(iv)*	*(i)*	*(iii)*
(C)	*(ii)*	*(iii)*	*(iv)*	*(i)*
(D)	*(ii)*	*(iv)*	*(iii)*	*(i)*

20. Read the statements below, marked as **Assertion (A)** and **Reason (R)** and select the ***correct*** option :

Assertion (A) : Significant reduction in crop yield can occur even when a nutrient deficiency may not be apparent as striking symptoms such as chlorosis on plant.

Reason (R) : Hidden hunger can only be detected with plant tissue analysis or yield decline.

(A) Both **(A)** and **(R)** are ***true***, and **(R)** is the ***correct*** explanation of **(A)**

(B) Both **(A)** and **(R)** are ***true***, but **(R)** is not the ***correct*** explanation of **(A)**

(C) **(A)** is ***true***, but **(R)** is ***false***

(D) **(A)** is ***false***, but **(R)** is ***true***

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21. The advantage of blossom thinning in fruit trees is mainly to

(A) regulate the flowering and harvesting time

(B) improve the size and grade of fruits in that season

(C) obtain disease free fruits

(D) maintain the stature of the tree

22. Stratified random sampling is ***not*** appropriate when the population is

(A) homogeneous

(B) non-homogeneous

(C) infinite

(D) None of the above

23. Which of the following is ***not*** a criterion for judging the efficiency of agricultural marketing?

(A) Operational efficiency

(B) Price efficiency

(C) Distributive justice

(D) Production efficiency

24. Match the following and choose the ***correct*** answer :

Column—I	***Column—II***
(a) AGMARK	*(i)* Imparts training to farmers on marketing management
(b) NAFED	*(ii)* Quality standards for agricultural and allied commodities
(c) SFAC	*(iii)* Market intervention for horticultural items like kinnow, onion, potato, grapes, etc.
(d) NIAM	*(iv)* Generates agri-business activities, establishes linkages between production, processing and marketing

	(a)	*(b)*	*(c)*	*(d)*
(A)	*(ii)*	*(iii)*	*(iv)*	*(i)*
(B)	*(iii)*	*(ii)*	*(i)*	*(iv)*
(C)	*(ii)*	*(iv)*	*(iii)*	*(i)*
(D)	*(i)*	*(iii)*	*(iv)*	*(ii)*

25. Which of the following is an example of cultural control in Integrated Pest Management?

(A) Hand-picking of pests

(B) Use of resistant varieties

(C) Crop rotation

(D) Use of pesticides

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26. What is the required isolation distance for certified seed production of onion?

(A) 100 m

(B) 300 m

(C) 1000 m

(D) 500 m

27. Which of the following combinations is suitable for an arecanut-based farming system?

(A) Arecanut + banana + piggery + poultry + vermicompost unit

(B) Arecanut + coconut + dairy + fishery

(C) Arecanut + wheat + dairy + mushroom

(D) Arecanut + rice + poultry + aquaculture

28. Which of the following is a highly salinity-tolerant fruit crop suitable for dryland conditions?

(A) Date palm

(B) Aonla

(C) Karonda

(D) Jamun

29. Which of the following is **not** the function of adjuvants?

(A) To improve herbicide selectivity for the non-target plant

(B) To increase toxicity to the target plants (weeds)

(C) To improve herbicide safety for the user

(D) To reduce the shelf life of herbicide formulations

30. Match the following terms with their descriptions :

Column—I	Column—II
(a) Soil moisture tension	(i) Difference in free energy between soil water and pure water in standard reference state
(b) Soil water potential	(ii) Force per unit area required to remove water from soil
(c) Matric potential	(iii) Potential resulting from adhesion and capillarity
(d) Osmotic potential	(iv) Potential resulting from presence of solutes in soil water

	(a)	(b)	(c)	(d)
(A)	(ii)	(i)	(iii)	(iv)
(B)	(i)	(ii)	(iv)	(iii)
(C)	(iii)	(i)	(ii)	(iv)
(D)	(ii)	(iii)	(i)	(iv)

31. The Haber-Bosch process produces _____ as an end product.

(A) urea

(B) ammonia (NH_3)

(C) nitrate

(D) phosphate

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32. Who is considered as the father of agrometeorology in India from 1926?

(A) A. M. Michele

(B) Professor L. A. Ramdas

(C) Charney and Lorenz

(D) Dr. S. M. Virmani

33. In wheat, critical period of crop-weed competition lies in between _____ after sowing.

(A) 8-10 weeks

(B) 1-3 weeks

(C) 4-6 weeks

(D) 10-12 weeks

34. Which of the following is ***not*** an absolute weed?

(A) *Euphorbia hirta*

(B) *Amaranthus spinosus*

(C) *Portulaca oleracea*

(D) *Phalaris minor*

35. In which Plan period, Planning Commission of India divided the country in 15 broad agroclimatic zones based on physiography and climate?

(A) Seventh Plan

(B) Sixth Plan

(C) Fourth Plan

(D) Fifth Plan

36. Which high cloud appears as detached white filaments with a silky, fibrous appearance and contains ice crystals below 0°C?

(A) Cirrostratus (Cs)

(B) Cirrocumulus (Cc)

(C) Cirrus (Ci)

(D) Altostratus (As)

37. _____ was among the first to quantify the relationship between plant growth response and the addition of a growth factor.

(A) Baule

(B) Spillman

(C) E. A. Mitscherlich

(D) Sir George Gabriel

38. Which of the following statement(s) regarding clogging in drip irrigation is/are true?

I. Bacteria and algae are classified as physical contributors to clogging because they remain suspended in irrigation water.

II. Sand, silt and clay are primarily responsible for chemical precipitation within the drip system.

III. Acid treatment is given when both Ca and Mg concentrations in irrigation water exceeds 50 ppm of each.

(A) I and II only

(B) II and III only

(C) II only

(D) III only

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39. The attraction between water molecules is _____ and attraction of water molecules for solid surface is _____.

(A) adhesion; cohesion

(B) cohesion; adhesion

(C) adhesion; surface tension

(D) cohesion; surface tension

40. Read the statements below, marked as **Assertion (A)** and **Reason (R)** and select the ***correct*** option :

Assertion (A) : Weeds are defined as undesirable and unwanted plants growing out of their proper place.

Reason (R) : Crop plants such as barley in wheat and maize in cotton may grow at unwanted places and are technically termed rogues, not weeds.

(A) Both **(A)** and **(R)** are ***true***, and **(R)** is the ***correct*** explanation of **(A)**

(B) Both **(A)** and **(R)** are ***true***, but **(R)** is not the ***correct*** explanation of **(A)**

(C) **(A)** is ***true***, but **(R)** is ***false***

(D) **(A)** is ***false***, but **(R)** is ***true***

41. Tall trees are planted in which direction in dryland horticulture to minimize wind damage and help conserve soil moisture?

(A) North-South

(B) East-West

(C) North-East

(D) South-East

42. Which of the following crops can be grown as intercrops in arecanut plantations to obtain maximum yield per unit area?

(A) Maize, wheat and barley

(B) Elephant foot yam, ginger and turmeric

(C) Rice, wheat and mustard

(D) Potato, pea and onion

43. Brick-gravel test method is used to test

(A) seed purity

(B) seed vigour

(C) seed moisture content

(D) seed hardness

44. _____ is a popular yellow vein mosaic resistant hybrid of okra.

(A) Makhmali

(B) Kashi Agahani

(C) Kashi Sandesh

(D) Pusa Aditya

45. Which of the following statements is ***incorrect***?

I. Equalisation begins with the arrival of agricultural produce in the wholesale market.

II. Dispersion begins before the process of equalisation.

III. Function of an efficient marketing system is to ensure incentive prices for farmers and reduce the price spread between producer and consumer.

(A) Only I

(B) Only II

(C) Only III

(D) None of the above

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46. Which of the following combination(s) related to different measures of central tendency is/are ***not correct***?

I. Qualitative data – Arithmetic mean

II. Skewed distribution – Median or mode

III. Extreme values – Median

IV. Symmetrical data – Mean, mode or median

(A) I only

(B) I and IV only

(C) I and II only

(D) II only

47. Modern technique(s) of weather forecasting include(s)

(A) data collection

(B) model output post processing

(C) numerical weather prediction (NWP)

(D) All of the above

48. Which of the following is ***not true*** about nitrogen?

(A) Nitrogen is an integral part of chlorophyll, which is the primary absorber of light energy needed for photosynthesis

(B) Nitrogen is an essential constituent of proteins

(C) It brings about early maturity of crops

(D) It governs the utilization of potassium, phosphorus and other elements

49. Which of the following statement(s) regarding the effect of soil factor on evaporation is/are ***correct***?

(A) Evaporation mainly occurs below 15 cm depth, and aggregates > 1.0 mm increase upward water movement

(B) Evaporation mostly occurs from the top 5 cm, while soil structure up to 15 cm depth influences evaporation through its influence on water supply to evaporation site

(C) Dark-coloured soils absorb less solar radiation and thus decrease evaporation

(D) Both (B) and (C)

50. Read the statements below, marked as **Assertion (A)** and **Reason (R)** and select the ***correct*** option :

Assertion (A) : Flood jet nozzles are popular for applying suspension fertilisers where clogging is a potential problem and helps in reducing the chemical drift.

Reason (R) : It produces large droplets at low pressure range of 10-25 psi (0.070-0.17 MPa) and medium to coarse at comparatively high pressure range of 15-90 psi (0.103-0.62 MPa).

(A) Both **(A)** and **(R)** are ***true***, and **(R)** is the ***correct*** explanation of **(A)**

(B) Both **(A)** and **(R)** are ***true***, but **(R)** is not the ***correct*** explanation of **(A)**

(C) **(A)** is ***true***, but **(R)** is ***false***

(D) **(A)** is ***false***, but **(R)** is ***true***

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51. Deterioration and death of plant organs such as leaves, stem, flowers and fruits, as in perennial plants, is known as

(A) complete senescence

(B) partial senescence

(C) ripening

(D) maturation

52. Which honey bee species is the smallest among four *Apis* species described?

(A) *Apis mellifera*

(B) *Apis dorsata*

(C) *Apis florea*

(D) *Apis cerana indica*

53. The number of times a particular value is repeated in a dataset is called

(A) class interval

(B) category

(C) frequency

(D) cumulative frequency

54. Elasticity of demand for farm products is generally

(A) low

(B) high

(C) Both (A) and (B)

(D) very high

55. Read the statements below, marked as **Assertion (A)** and **Reason (R)** and select the ***correct*** option :

Assertion (A) : Adult stage in most of the parasitoids and predators is considered appropriate than immature stages.

Reason (R) : The natural enemies should be released in the field in the vicinity of a suitable host.

(A) Both **(A)** and **(R)** are ***true***, and **(R)** is the ***correct*** explanation of **(A)**

(B) Both **(A)** and **(R)** are ***true***, but **(R)** is not the ***correct*** explanation of **(A)**

(C) **(A)** is ***true***, but **(R)** is ***false***

(D) **(A)** is ***false***, but **(R)** is ***true***

56. The principles and procedures of biological control ***do not*** include

(A) introduction of natural enemies

(B) augmentation

(C) colonization

(D) complete eradication of all insects

57. Which dance is used to indicate a short distance of less than 50 meters in case of *Apis mellifera*?

(A) Round dance

(B) Wag-tail dance

(C) Swarming

(D) Absconding

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58. In case of hybrid seeds, produced by methods employing hand pollination, genetic purity verification is prescribed through which of the following tests?

(A) Germination test
(B) Tetrazolium test → viability
(C) Grow-out test
(D) Vigour test

59. Which of the following is a major benefit of integrating dairy animals with coconut-forage crops?

(A) Reduction in coconut yield
(B) Improvement in soil health through dairy and recycling of coconut wastes
(C) Elimination of the need for fodder crops
(D) Increased dependence on external inputs

60. Match the following and choose the ***correct*** answer :

Column—I	***Column—II***
(a) Dry spell	*(i)* Severe form of drought
(b) Drought	*(ii)* Rainless period > 10 days in light soils
(c) Famine	*(iii)* Prolonged dry spell causing wilting/ drying of crops
(d) Desertification	*(iv)* Land degradation in arid, semi-arid and dry humid areas

	(a)	*(b)*	*(c)*	*(d)*
(A)	*(ii)*	*(iii)*	*(i)*	*(iv)*
(B)	*(iii)*	*(ii)*	*(iv)*	*(i)*
(C)	*(ii)*	*(i)*	*(iii)*	*(iv)*
(D)	*(iv)*	*(iii)*	*(i)*	*(ii)*

61. Weeds found along water streams, irrigation and drainage canals, around reservoirs, on dry beds of rivers and in flood plains are known as

(A) shoreline weeds
(B) phreatophytes
(C) ditch weeds
(D) ditch-bank weeds

62. Drip irrigation can be used with water containing a maximum salt concentration of

(A) 7.5 dS/cm
(B) 5.5 dS/cm
(C) 6 dS/cm
(D) 6.5 dS/cm

63. Interveinal chlorosis and white or grey spots on younger leaves of some of small grains are the deficiency symptom of

(A) zinc
(B) copper
(C) iron
(D) manganese (Mn)

64. Which of the following is ***not*** a basic form of cloud?

(A) Stratus
(B) Cumulus
(C) Cirrus
(D) Nimbus

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65. Which of the following is a micronutrient?

(A) Si
(B) K
(C) Na
(D) Fe

66. If moisture stress occurs before flowering, the duration of crop generally _____, whereas if it occurs after flowering, the duration of crop generally_____.

(A) increases; decreases
(B) decreases; increases
(C) increases; remains unchanged
(D) decreases; remains unchanged

67. Frequency of irrigation can be reduced when crops are planted as

(A) deep-rooted crops on the leeward side and shallow-rooted crops on the windward side
(B) shallow-rooted crops on the leeward side and deep-rooted crops on the windward side
(C) deep-rooted crops on both windward and leeward sides
(D) shallow rooted crops on both windward and leeward sides

68. Which of the following is a non-selective herbicide?

(A) Atrazine
(B) Trifluralin
(C) 2,4-D
(D) Glyphosate

69. Application of growth retardants such as alar (daminozide) and paclobutrazol may reduce water use in fruit crops by

(A) decreasing leaf area
(B) increasing leaf succulence
(C) enhancing xylem vessel diameter
(D) (B) and (C) only

70. Which of the following is/are the major benefit(s) of integrating annual/seasonal crops with fruit trees/plantation crops?

(A) To ensure the production and income generation in a sustainable manner by efficient utilization of both natural resources and inputs
(B) Economizing productivity, generating employment opportunities
(C) Increasing export prodding and ensures nutritional security to the people
(D) All of the above

71. Match the following crops with the isolation distance for foundation seed production.

Column—I	Column—II
(a) Cowpea	(i) 400 m
(b) Chilli	(ii) 5 m
(c) Cauliflower	(iii) 10 m
(d) Garlic	(iv) 1600 m

	(a)	(b)	(c)	(d)
(A)	(iii)	(i)	(iv)	(ii)
(B)	(ii)	(i)	(iii)	(iv)
(C)	(i)	(iii)	(ii)	(iv)
(D)	(iii)	(ii)	(i)	(iv)

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72. Under water-deficit conditions, the activity of growth-promoting hormones like cytokinin, gibberellic acid and indoleacetic acid is

(A) decreased

(B) increased

(C) remain unchanged

(D) None of the above

73. Which of the following is/are mentioned as an Integrated Farming System suitable for small and marginal farmers?

(A) Integrated Farming System with goats and sheeps

(B) Country chicken in Integrated Farming System

(C) Fodder production and Integrated Farming System through *Azolla* and Panchakavya

(D) All of the above

74. Downy mildew in cabbage is caused by

(A) *Albugo candida*

(B) *Alternaria brassicae*

(C) *Erwinia* sp.

(D) *Peronospora parasitica*

75. Which of the following is a quality of an effective natural enemy?

(A) High visibility

(B) Similar characteristics to the target pest

(C) Host specificity

(D) Low survival capacity

76. Match the characteristics of various graphical representation of data and choose the ***correct*** answer :

Column—I	***Column—II***
(a) Bar charts	*(i)* Base of bars represent the class size and height represents the frequency
(b) Pie charts	*(ii)* Show only one variable and its components
(c) Cumulative frequency curve	*(iii)* Ogive
(d) Histogram	*(iv)* Represent both qualitative as well as quantitative data

	(a)	*(b)*	*(c)*	*(d)*
(A)	*(i)*	*(ii)*	*(iii)*	*(iv)*
(B)	*(i)*	*(iv)*	*(iii)*	*(ii)*
(C)	*(iv)*	*(ii)*	*(iii)*	*(i)*
(D)	*(iv)*	*(iii)*	*(ii)*	*(i)*

77. The direct effect of pollen on embryonic or endosperm tissue is known as

(A) metaxenia

(B) xenia

(C) fertilization

(D) abscission

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78. Which plough is mainly used to break the plough sole or plough pan which is a hard layer formed due to ploughing continuously at the same depth for many seasons?

(A) Disc plough

(B) Mould board plough

(C) Iron plough

(D) Chisel plough

79. The East Coast Plains and Hills include

(A) parts of Madhya Pradesh

(B) coastal areas of Odisha

(C) parts of West Bengal

(D) Andaman and Nicobar Islands

80. Which law states that "Even if all but one of the essential elements be present, the absence of that one constituent will render the crop barren"?

(A) Stokes' Law

(B) Liebig's Law of Minimum

(C) Mitscherlich's Law

(D) Darcy's Law

81. Methane emissions from crop fields (notably rice paddy fields) are increased by the application of

(A) urea-based fertilizers

(B) nitrite form of fertilizers

(C) nitrate form of fertilizers

(D) ammonium based fertilizers

82. The size of brood frame (outer dimensions) is

(A) 29 cm × 40 cm × 10 cm

(B) 29 cm × 29 cm × 17 cm

(C) 15 cm × 30 cm × 45 cm

(D) 20 cm × 15 cm × 35 cm

83. Waxol and Mobileaf are classified under which type of antitranspirants?

(A) Reflecting type

(B) Plastic type

(C) Growth-retardant type

(D) Stomatal-closing type

84. Summer tillage contributes to drought management primarily by

(A) increasing evaporation and weed infestation

(B) increasing soil moisture retention and reduced weed infestation

(C) reducing infiltration

(D) increasing crop duration

85. The Vedalia beetle was introduced for the biological control of

(A) woolly apple aphid

(B) San Jose scale

(C) cottony cushion scale

(D) common mealybug

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86 Which of the following is an important source of variety deterioration during seed production?

(A) Mutation

(B) Developmental variations

(C) Natural crossing

(D) Mechanical mixtures

87. In cashew nut-based cropping system, which of the following crop(s) can be grown as intercrop(s)?

(A) ginger

(B) turmeric

(C) sweet potato

(D) All of the above

88. Certification tag for certified seed is _____ in colour.

(A) golden

(B) white

(C) blue

(D) purple

89. Compared with the arithmetic mean, the geometric mean is

(A) more affected by extreme values

(B) equally affected by extreme values

(C) less affected by extreme values

(D) unaffected by extreme values

90. The stage of transition of vegetative buds to floral primordia is called as

(A) development

(B) growth

(C) fruit bud initiation and differentiation

(D) vegetative stem primordia

91. Which of the following is **not** a kharif annual weed?

(A) *Celosia argentea*

(B) *Medicago denticulata*

(C) *Echinochloa crus-galli*

(D) *Digera arvensis*

92. Terracing technique of soil conservation serves the twin purpose of

(A) weed control and nutrient conservation

(B) water conservation and prevention of topsoil loss

(C) moisture stress management and drainage improvement

(D) wind erosion control and mulching

93. Sugarcane crop intercropped with potato is _____ remunerative than the monocrop.

(A) more

(B) less

(C) Both (A) and (B)

(D) None of the above

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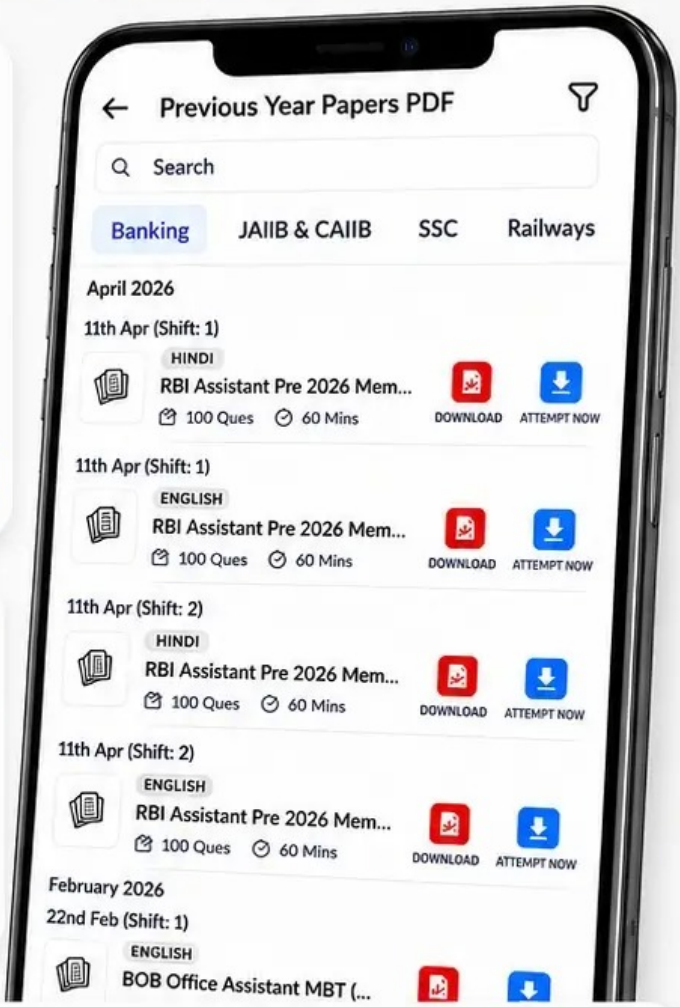
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94. _____ is the removal of off-type plants from the variety.

(A) Rouging

(B) Detasseling

(C) Emasculation

(D) Grading

95. Which is the natural enemy of the woolly apple aphid (*Eriosoma lanigerum*)?

(A) *Telemonus remus*

(B) *Aphelinus mali*

(C) *Rodolia cardinalis*

(D) *Aphytis diaspidis*

96. Under water-stress conditions, tree crop generally

(A) exhibits greater shoot growth than root growth

(B) exhibits more root than shoot formation

(C) exhibits equal root and shoot growth

(D) increased leaf area expansion

97. Beehives were designed by

(A) L. L. Langstroth

(B) Johann Dzierzon

(C) Francois Huber

(D) Karl von Frisch

98. Application of _____ at 100 ppm induces complete seedlessness in the grape varieties such as Anab-e-Shahi, Pachadraksha, etc.

(A) auxin

(B) gibberellic acid

(C) ethrel

(D) cytokinin

99. In biological methods, which weed was reported to be controlled by *Bactra verutana*, a shoot-boring moth in USA, India and Pakistan?

(A) *Lantana camara*

(B) *Cyperus rotundus*

(C) *Parthenium hysterophorus*

(D) *Opuntia inermis*

100. The sharpness angle of khurpi is kept about _____ for better weed cutting.

(A) 11°

(B) 15°

(C) 5°

(D) 8°