Q1. The most critical growth stage for moisture stress in lentil

1. Branching
2. Flower bud initiation
3. Pod formation
4. Rosetting

Answer: 2. Flower bud initiation

Q2. Following are the statements with respect to economization of irrigation water in rice A. Rice should be cultivated on heavy soils with percolation above 5 mm per day B. Subsoil loosening to enhance water flux to soil. C. Rice should be grown in small isolated blocks to reduce seepage D. Application of tank silt to light soils E. Puddling to reduce soil permeability Choose the correct answer from the options given below

1. B, C and E only
2. Band E only
3. Aand D only
4. D and E only

Answer: 4. D and E only

Q3. The soil with more than 20 Kg/ ha Phosphorus are rated as

1. Low in P
2. Medium in P
3. Very low in P
4. [missing]

Answer: 2. Medium in P

Q4. Which phytohormone forms the association between roots and microbes?

1. Gibberellin
2. Auxin
3. Brassinosteroid
4. Strigolactones

Answer: 2. Auxin

Q5. Which of the following is the latest addition to the list of essential nutrients?

1. Selenium
2. Cobalt
3. Chlorine
4. Nickel

Answer: 4. Nickel

Q6. Irrigation requirement of 90 days duration maize variety is 50 cm. How much area can be irrigated with a flow rate of 20 litre per second for 8 hours in a day.

1. 20.2 ha
2. 16.5 ha
3. 12 ha
4. 10.4 ha

Answer: 4. 10.4 ha

Q7. Which of the following books is on conservation agriculture?

1. One Straw Revolution
2. Silent Spring
3. An Agricultural Testament
4. Look to the Land

Answer: 1. One Straw Revolution

Q8. Suitable agronomic soil moisture conservation technique for dryland areas

1. Contour farming
2. Contour bunding
3. Trenching
4. [missing]

Answer: 2. Contour bunding

Q9. The soil formation equation, S = f (cl, 0, r, p, t...) was first formulated by:

1. Jackson
2. Jenny
3. Dokuchaev
4. Hilgard

Answer: 2. Jenny

Q10. For preparation of 1000 mL of 0.1 N potassium dichromate solution (0.1 N KyCr207, atomic mass of K = 39, Cr = 52, O = 16), the amount of analytical grade potassium dichromate required is:

1. 294 gram
2. 49.0 gram
3. 4.9 gram
4. 29.4 gram

Answer: 4. 29.4 gram

Q11. Which of the following statements are correct for "Cytokinins"? A. Cytokinin stimulates cell division B. One of the potent cytokinin is 6-Benzyladenine C. Cytokinin hastens senescence D. Cytokinin breaks dormancy of seeds and buds Choose the correct answer from the options given below:

1. B, C and D only
2. A, B and C only
3. A, B and D only
4. Band D only

Answer: 3. A, B and D only

Q12. The daughter cells produced after mitosis will have number of chromosomes as original cells.

1. Twice more
2. Half of
3. Same

4. [missing]

Answer: 3. Same

Q13. The botanical name of pop corn

1. Zea mays amylacea
2. Zea mays everta
3. Zea mays tunicata
4. Zea mays ceratina

Answer: 2. Zea mays everta

Q14. The book Nature and Properties of Soils is written by

1. M. L. Jackson
2. H. Marschner
3. N. C. Brady and R. R. Weil
4. K. Mengel and E. A Kirkby

Answer: 3. N. C. Brady and R. R. Weil

Q15. The sulphur (S) containing mineral is:

1. Zeolite
2. Dolomite
3. Magnesite
4. Epsomite

Answer: 4. Epsomite

Q16. If irrigation water is NOT limited, groundnut grown in a sandy loam soil should be irrigated throughout crop period using which of the following schedule

1. 50 % depletion of available soil moisture or IW/CPE ratio of 0.6
2. 25 % depletion of available soil moisture or IW/CPE ratio of 1.0
3. 25 % depletion of available soil moisture or |W/CPE ratio of 0.6
4. 50 % depletion of available soil moisture or IW/CPE ratio of 0.75

Answer: 3. 25 % depletion of available soil moisture or |W/CPE ratio of 0.6

Q17. In greengram, nitrogen fixation starts at the age of

1. 12-15 days
2. 24-27 days
3. 30-33 days
4. [missing]

Answer: 1. 12-15 days

Q18. Match List | with List Il tistt List A. Malonate I. Blocks complex III in ETC B.Cyanide Il. Prevents oxidation of succinate in Krebs cycle C. Oligomycin Ill. Inhibits cytochrome oxidase in ETC IV. Inhibits ATP synthase Choose the correct answer from the options given below:

1. A-ll,B- Ill, C-IV, D-1
2. A-I,B-Il,C-IV, D-Ill
3. A-lll, B- Il, C-IV, D-1

4. A-IV,B-Ill,C -1, D-II

Answer: [not found]

Q19. IWDP stands for

1. International watershed development project
2. Integrated watershed development project
3. Integrated watershed development programme
4. Integrated watershed driven plan

Answer: 2. Integrated watershed development project

Q20. Dew can also be a water resource; accumulation of dew in north and north-east India during 6 months from October to March is

1. 5 — 10 mm
2. 10-15 mm
3. 15- 30 mm
4. 30-50 mm

Answer: [not found]

Q21. Methemoglobinemia disease is caused due to toxic concentration of Options:- Contact us: 8920321513 -Nitrate, Option ID :- 3737, e Sulphate, Option ID :- 3738, - Phosphate, Option ID :- 3739, Silicate, Option ID :- 3740,

1. [missing]
2. [missing]

3. [missing]

4. [missing]

Answer: [not found]

Q22. For how many days in advance, weather forecasts are currently issued by IMD in DAMU Project?

1. 3 days

2. 5 days

3. 10 days

4. 21 days

Answer: [not found]

Q23. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: Ratio between the area of crop irrigated and quantity of water applied to the crop is called as delta Reason R: Any crop management practice aimed at economy in irrigation water application increases delta In light of the above statements, choose the most appropriate answer from the options given below

1. Both A and R are correct and R is the correct explanation of A

2. Both A and R are correct but R is NOT the correct explanation of A

3. BothA andR are incorrect

4. Ais incorrect but R is correct

Answer: 3. BothA andR are incorrect

Q24. Match List | with List Il IV. Aeschynomene Choose the correct answer from the options given below:

1. A-IV,B-1,C- Ill, D - Il
2. A- Ill, B-1, C - IV, D - Il
3. A-Il,B-IV,C - 1, D - Ill
4. [missing]

Answer: 3. A-Il,B-IV,C - 1, D - Ill

Q25. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A : A Geographical Information System (GIS) links spatial data with descriptive information about a particular feature on a map. Reason R : The information is stored as attributes of the geographically represented features. In light of the above statements, choose the correct answer from the options given below

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are true but R is NOT the correct explanation of A
3. Ais true but R is false
4. Ais false but R is true

Answer: 1. Both A and R are true and R is the correct explanation of A

Q26. Which of the following sprayers require the minimum volume of spray solution to cover a hectare of wheat crop?

1. Power sprayer
2. Hand sprayer
3. Foot sprayer

4. Knapsack sprayer

Answer: 1. Power sprayer

Q27. The first acceptor of CO2 and first product of C, plant is

1. Oxaloacetic acid and phosphoenolpyruvate
2. Malic acid and oxaloacetate
3. Phosphoenolpyruvate and oxaloacetate
4. Oxaloacetic acid and malate

Answer: 3. Phosphoenolpyruvate and oxaloacetate

Q28. Percentage of lignin in sugarcane bagasse (Saccharum officinarum)

1. 4-6
2. 15-19
3. 25-32
4. 40-45

Answer: [not found]

Q29. Match List | with List Il bisth feist Condidate herbicide A. Inhibition of EPSP synthase B. Carotenoid biosynthesis inhibitor Il. Carfentrazone C. ALS inhibitor Ill. Metsulfuron methyl D. PPO inhibitor IV. Glyphosate Choose the correct answer from the options given below:

1. A - Il, B - Ill, C - IV, D - I
2. A-IV,B-1,C- II, D-Ill
3. A-IV,B- Ill, C - 1, D- Il

4. A-Il,B-IV,C-1, D-Ill

Answer: 2. A-IV,B-1,C- II, D-Ill

Q30. Match List | with List Il A. Liquid formulation |I. Surfactant | B. Utility modifier Il. CIBRC C. Activator adjuvant III. Emulsifier D. Regulatory Agency|IV. WSC Choose the correct answer from the options given below:

1. A - IV, B- Ill, C - 1, D - Il

2. A-Il,B-IV,C-1, D - Ill

3. A-ll,B-1,C- IV,D - Ill

4. A-IV,B-1,C- Il, D - Ill

Answer: 1. A - IV, B- Ill, C - 1, D - Il

Q31. Dokuchaev, the Father of Soil Science, did pioneering work on “Chernozem” somewhat similar to that of Indian soil of:

1. Calcareous soil

2. Alluvial soil

3. Red soil

4. Black soil

Answer: 4. Black soil

Q32. The total age of rice seedlings for transplanting in main field through double transplanting 93715 3 method °

1. 60-70 days

2. 50-60 days

3. 40-50 days

4. 30-40 days

Answer: 2. 50-60 days

Q33. Out of the following statements, which one is not correct ?

1. Number of stomata found in all different leaves is different in plants
2. Distribution of stomata is different in different plants
3. Distribution, number, size and type of stomata are same in every plant
4. Size and type of stomata is different in different plants

Answer: [not found]

Q34. Glufosinate inhibits the enzyme

1. Glutamine synthatase
2. EPSP
3. ACCase
4. PPO

Answer: 1. Glutamine synthatase

Q35. A typical mineral soil, on volume basis, contains:

1. Mineral material 45%, organic matter 15%, air 10-20% and water 20-30%
2. Mineral material 55%, organic matter 5%, air 10-20% and water 20-30%
3. Mineral material 45%, organic matter 5%, air 20-30% and water 20-30%

4. Mineral material 55%, organic matter 5%, air 20-30% and water 10-20%

Answer: [not found]

Q36. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: Theoretically, a planophile canopy would be more efficient if radiation were distributed more evenly over leaf surfaces. Reason R: Such an equitable distribution could be accomplished by having leaves, at least the upper leaves, at a vertical leaf inclination when the sun is at high elevations. In light of the above statements, choose the correct answer from the options given below

1. Both A and R are true but R is NOT the correct explanation of A
2. Ais true but R is false
3. Ais false but R is true
4. [missing]

Answer: [not found]

Q37. Match List | with List II List! ——SS~=~d | Vegetative organ Weed species __| A. Tuber I. Trifolium repens _ I. Allium vineale__| III. Elytrigia repens | |D. Bulb _|IV. Cyperus rotundus| Choose the correct answer from the options given below:

1. A-IV,B- III, C - I, D - II
2. A-IV,B-1,C- III, D - II
3. A-II,B-1,C- IV, D - III
4. A-III,B-1,C- IV,D - II

Answer: 1. A-IV,B- III, C - I, D - II

Q38. Which of the following is the non-physiological oxidant used by Robert Hill known as Hill reagent?

1. Ferricyanide
2. Ferric oxalate
3. DCPIP
4. NADP*

Answer: 1. Ferricyanide

Q39. Fertilizers having least hygroscopicity is

1. Ammonium nitrate
2. Ammonium sulphate
3. Anhydrous chloride
4. Urea

Answer: 2. Ammonium sulphate

Q40. In dry spell, during crop period, which of the following cannot be moisture stress mitigation practice?

1. Ratooning
2. Thinning
3. Mulching
4. Intensive cropping

Answer: 4. Intensive cropping

Q41. Correct order of irrigation terminologies with respect to amount of water involved during a given event of irrigation (WR stands for water requirement, IR for irrigation requirement, NIR for net irrigation requirement and E for evaporation)

1. > WR > NIR > IR
2. IR>WR >E >NIR
3. IR>WR > NIR > E
4. WR> IR >NIR > E

Answer: 4. WR> IR >NIR > E

Q42. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: Rayleigh scattering causes the sky to appear blue. Reason R: As most of the Rayleigh scatterers have size << A="" (wavelength). In light of the above statements, choose the correct answer from the options given below

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are true but R is NOT the correct explanation of A
3. Ais true but R is false
4. Ais false but R is true

Answer: 1. Both A and R are true and R is the correct explanation of A

Q43. Beneficial elements of plants are: A. Sodium B. Vanadium C. Selenium D. Cobalt Choose the correct answer from the options given below

1. A, B and D only
2. A, B and C only
3. B, C and D only

4. [missing]

Answer: 1. A, B and D only

Q44. Match List | with List Il List Il Moisture content at saturation level Il. 50% Ill. 42% IV. 40% V. 38 % Choose the correct answer from the options given below:

1. A-V,B- Ill, C - IV, D - 1, E- II
2. A-V,B-1,C- Ill, D- IV, E- II
3. A-1,B-V,C- Ill, D- Il, E- IV
4. A-V,B- Ill, C -1,D- IV, E- II

Answer: 2. A-V,B-1,C- Ill, D- IV, E- II

Q45. Which of these statements is incorrect? A. Glycolysis occurs in cytosol B. Oxidative phosphorylation takes place in outer mitochondrial membrane C. Respiratory ETS in plants located in inner mitochondrial membrane D. ATP is synthesized through complex V

1. A
2. B
3. C
4. D

Answer: 2. B

Q46. Drainage of one ha-cm in 24 hours equals to drainage of how much water

1. 1.671 Ips
2. 1.925 Ips

3. 2.157 Ips

4. [missing]

Answer: [not found]

Q47. Match List | with List II List! fist A. Leaching |. Acid sulphate soil | B. Gypsum requirement|ll. Acid soil Ill. Sodic soil | IV. Salt affected soil| |E. Urea briquette \V. Water logged soil Choose the correct answer from the options given below:

1. A-Il,B-IV,C-V,D-I, E- Ill

2. A-IV,B-Ill,C-1,D- Il, E- V

3. A- Ill, B- Il, C - 1, D- IV, E- V

4. A-V,B-1,C- Il, D-Ill, E - IV

Answer: 2. A-IV,B-Ill,C-1,D- Il, E- V

Q48. The suitable seed rate of pearl millet to get seedlings for transplanting in one hectare area

1. 2 kg/ha

2. 4kg/ha

3. 6 kg/ha

4. 8 kg/ha

Answer: 1. 2 kg/ha

Q49. Small seeded late maturing type of blackgram

1. Vigna mungo var. niger

2. Vigna mungo var. viridis

3. Both 1 and 2

4. Vigna aconitifolia

Answer: 2. Vigna mungo var. viridis

Q50. Which of the following is not a film forming type anti-transpirant?

1. Mobileaf

2. Hexadecanol

3. CaHCO3

4. [missing]

Answer: 3. CaHCO3

Q51. Given below are two statements Statement I: Osmotic pressure is always negative. Statement II: Osmotic potential is also always negative. In light of the above statements, choose the correct answer from the options given below

1. Both Statement | and Statement II are true

2. Both Statement | and Statement II are false

3. Statement | is true but Statement II is false

4. Statement | is false but Statement II is true

Answer: 4. Statement | is false but Statement II is true

Q52. In oxygenic photosynthetic organism, photosynthetic pigment is located in

1. Peroxisome

2. Stroma

3. Chlorosome

4. Thylakoid membranes

Answer: 4. Thylakoid membranes

Q53. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: The probe of a neutron moisture meter is inserted into an access tube fixed vertically in the soil Reason R: The probe of a neutron moisture meter contains a source of fast protons and a detector of slow electrons and helps in estimating soil moisture content In light of the above statements, choose the most appropriate answer from the options given below

1. Both A and R are correct and R is the correct explanation of A

2. Both A and R are correct but R is NOT the correct explanation of A

3. Ais correct but R is not correct

4. Ais not correct but R is correct

Answer: 3. Ais correct but R is not correct

Q54. Major properties of soil order are: A. Gelisols - Occur in areas of cold region such as Artic, Antarctic or high HUattaines: 8920321513 B. Histosols - Organic matter rich (>20%) soils with peaty horizon under permanent water saturated environment. C. Oxisols - Deeply weathered soils of humid tropics with brick red colour. D. Mollisols - Dark coloured low base containing soils (<50% base saturated> Choose the correct answer from the options given below:

1. A, B and D only

2. A, B and C only

3. A, C and D only

4. B, C and D only

Answer: 2. A, B and C only

Q55. ICRISAT was established in the year

1. 1962
2. 1972
3. 1982
4. 1992

Answer: 2. 1972

Q56. Buggy whipping condition in sorghum is caused by

1. Deficiency of nitrogen
2. Deficiency of Zn
3. Application of higher dose of 2, 4-D
4. Application of higher dose of atrazine

Answer: 3. Application of higher dose of 2, 4-D

Q57. Given below are two statements Statement I: Maximum wasteland areas in our country lies in Madhya Pradesh. Statement II: In Haryana, most wastelands comprise saline, sodic or sandy land areas. In light of the above statements, choose the most appropriate answer from the options given below

1. Both Statement | and Statement II are correct
2. Both Statement | and Statement II are incorrect
3. Statement | is correct but Statement II is incorrect
4. Statement | is incorrect but Statement Il is correct

Answer: 4. Statement | is incorrect but Statement II is correct

Q58. Following are the statements about common feature of drought avoidance in plants A. Early stomata closure B. Efficient root system C. Lipid deposition on foliage D. Reduction in water uptake E. Straightening of leaves Choose the correct answer from the options given below:

1. A, D and E only
2. B, D and E only
3. B, C and D only
4. A, B and C only

Answer: 4. A, B and C only

Q59. What is the weight of one centimeter of surface soil over one hectare of land?

1. 100 t
2. 150 t
3. 200 t
4. 250 t

Answer: 2. 150 t

Q60. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: The temperature increases with increasing height in the stratosphere. Reason R: Ozone absorbs ultra violet radiation in the stratosphere and makes it warm. In light of the above statements, choose the correct answer from the options given below

1. Both A and R are true and R is the correct explanation of A

2. Both A and R are true but R is NOT the correct explanation of A

3. Ais true but R is false

4. Ais false but R is true

Answer: 1. Both A and R are true and R is the correct explanation of A

Q61. Ammonium sulphate fertilizer is advisable for

1. Wheat

2. Cotton

3. Maize

4. [missing]

Answer: 2. Cotton

Q62. Imperata cylindrica is propagated by means of

1. Rhizomes

2. Off-setts

3. Stolon

4. Sucker

Answer: 1. Rhizomes

Q63. Arrange in correct sequence the steps of Precision Agriculture A. Evaluation of Precision Agriculture B. Preparation of variability maps C. Managing Variability D. Assessing Variability Choose the correct answer from the options given below

1. A, B, C, D

2. D, B, C, A

3. B,C, D, A

4. C, D, A, B,

Answer: 2. D, B, C, A

Q64. Match List | with List Il List II Minimum cardinal temperature (°C) B.Wheat [30-45 000 IC. Maize III. 8.0 - 10.0 ID. Peas IV. 10.0 -12.0 Choose the correct answer from the options given below:

1. A-1,B- II, C - IV, D - Ill

2. A-II,B-IV,C-1, D - II

3. A-IV,B- Il, C - Ill, D - I

4. A-Il,B-IV,C- Ill, D - I

Answer: 3. A-IV,B- Il, C - Ill, D - I

Q65. A band of suberin layer develops all around the cell in the middle of the transverse and radial walls. This suberin is called strip.

1. Intercalary

2. Pericycle

3. Cambium

4. Casparian

Answer: 4. Casparian

Q66. What is the date of winter solstice in the southern hemisphere?

1. 22"4 December

2. 21St March

3. 21St June

4. 23'4 September

Answer: 3. 21St June

Q67. The water soluble P (as % P205) in diammonium phosphate (DAP) is

1. 42.5

2. 44.5

3. 46.0

4. 40.5

Answer: 1. 42.5

Q68. An area of 0.6 ha each of wheat and maize is irrigated daily with a discharge of 2000 litre per minute for a period of 15 hours. Each crop receives 8 cm of water. Determine efficiency (%) of irrigation system

1. 66.7

2. 76.7

3. 80.7

4. 85.6

Answer: 1. 66.7

Q69. NAD? in cellular respiration acts as In cemularrespiral Contact us: 8920321513

1. A source for ATP synthase
2. An enzymes
3. An electron carrier
4. An electron acceptor for anaerobic respiration

Answer: 3. An electron carrier

Q70. Read the statements with respect to water management in maize A. Most critical stage for irrigation is flowering period including tasseling, silking and pollination B. Water deficit at flowering stage causes heaviest yield loss mainly due to reduction in grain size C. Under the conditions of adequate irrigation water, irrigations should be applied at 25 % depletion of available soil moisture D. Under the conditions of adequate irrigation water, irrigations should be applied at IW/CPE of 0.6 or 0.8 throughout growth period of crop E. As maize is mostly grown in rainy season, applying irrigation is wasteful Choose the correct answer from the options given below:

1. A, B and C only
2. B, D and E only
3. Aand C only
4. A, Band D only

Answer: 3. Aand C only

Q71. Bispyribac sodium is commonly used in

1. Maize
2. Rice
3. Tomato
4. Okra

Answer: 2. Rice

Q72. A herbicide for the control of Lantana camara

1. Simazine
2. Fenoxaprop -p- ethyl
3. Paraquat
4. Glyphosate

Answer: 4. Glyphosate

Q73. Glutathione -S-transferase is responsible for the selectivity of Contact us: 8920321513

1. Phenyl ureas
2. Sulfonyl ureas
3. Imidazolinones
4. Triazines

Answer: 4. Triazines

Q74. Which one of the following is NOT a pressure unit?

1. Atmosphere
2. Pascal
3. Newton
4. Torr

Answer: 3. Newton

Q75. The bulk density is expressed as: A. g/cm? B. Mg/m? C. kg/m? D. g/m? Choose the correct answer from the options given below:

1. A and D only
2. Aand B only
3. Aand C only
4. Band C only

Answer: 2. Aand B only

Q76. If the tank capacity of the sprayer is 20 litres and the application rate is 500 l/ha, then butachlor 50 EC required at 1.4 kg ai/ha per spray load is will be

1. 100 ml
2. 50 ml
3. 25 ml
4. 75 ml

Answer: 1. 100 ml

Q77. In early withdrawal of monsoon what should be best moisture mitigation fradtiast us: 8920321513

1. arly sowing of suitable Rabi crops
2. Late sowing of suitable Rabi crops
3. Late sowing of suitable Kharif crops
4. Both 1 and 2

Answer: 2. Late sowing of suitable Rabi crops

Q78. Which of the following is NOT in the mustard group?

1. Brassica juncea
2. Brassica napus
3. Brassica nigra
4. Brassica carinata

Answer: 2. Brassica napus

Q79. Give the chronological order in the development of following herbicides A. Atrazine B. 2,4-D C. Bispyribac Sodium D. Alachlor E. Butachlor Choose the correct answer from the options given below

1. B, A, C, D, E
2. B, A, D, E, C
3. C, B, A, E, D
4. D,B, E, A, C

Answer: 2. B, A, D, E, C

Q80. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: Sulphuric acid can be used to amend water quality and can be applied directly to soil or in the irrigation water Reason R: Sulphuric acid rapidly neutralizes the Na constituents of water or reacts with lime in the soil to produce soluble Ca In light of the above statements, choose the most appropriate answer from the options given below Options:- Contact us: 8920321513 -Both A and R are correct and R is the correct explanation of A, Option ID :- 3693, - Both A and R are correct but R is NOT the correct explanation of A, Option ID :-

3694, - Ais correct but R is not correct, Option ID :- 3695, - Ais not correct but R is correct, Option ID :- 3696,

1. [missing]
2. [missing]
3. [missing]
4. [missing]

Answer: [not found]

Q81. Highest area under conservation agriculture is in which of the Continent?

1. Africa
2. Asia
3. Australia
4. America

Answer: 4. America

Q82. Match List | with List II Name of ICAR research institute A. ICAR-Indian Institute of Seed Science I. Bhopal B. ICAR-National Institute of High Security Animal Diseases C. ICAR- National Research Centre on Integrated Farming III. Motihari D. ICAR-Directorate of Cold Water Fisheries Research Choose the correct answer from the options given below:

1. A -II,B-IV,C-1, D-III
2. A-1,B- III, C - II, D - IV
3. A- III, B- II, C - IV, D - III
4. A-IV,B-1,C- III, D-II

Answer: 4. A-IV,B-1,C- III, D-II

Q83. Which one of the following crops requires highest amount of calcium?

1. Oil seeds
2. Cereals
3. Legumes
4. Forage crops

Answer: 3. Legumes

Q84. The most abundant minerals and mineral groups in sand and silt of soils throughout the world is:

1. Olivines
2. Pyroxenes and Amphiboles
3. Quartz
4. [missing]

Answer: 3. Quartz

Q85. The suitable seed rate for row-sown sesame

1. 3-4 kg/ha
2. 9-10 kg/ha
3. 14-15 kg/ha
4. 19-20 kg/ha

Answer: 1. 3-4 kg/ha

Q86. Which of the following are correct about C, cycle and C, plant? A. Phosphoenolpyruvate carboxylase is located in cytosol B. C4 cycle occurs in the chloroplasts of bundle sheath cells C. C4 cycle is a CO2 enrichment cycle D. C4 cycle occurs in the chloroplasts of mesophyll cells.

1. Band C only
2. A, B and C only
3. Cand D only
4. [missing]

Answer: 3. Cand D only

Q87. Match List | with List Il List II A. Pappus/parachute Il. Physalis minima C. Persistence/feathry calyzjlll. Canada thistle lV. Saccharum sp Choose the correct answer from the options given below:

1. A-Ill,B-IV,C- 1, D-II
2. A-Il,B-IV,C-I,D - Ill
3. A-IV,B-1,C- II, D - Ill
4. A-Ill,B-1,C- IV,D - Il

Answer: 1. A-Ill,B-IV,C- 1, D-II

Q88. Contact us: 8920321513 Which of the following is not synonomous with soybean crop?

1. Wonder crop
2. Miracle crop
3. Golden bean
4. Queen of oilseeds

Answer: 4. Queen of oilseeds

Q89. At what height, geostationary satellites are placed above the earth surface?

1. 800 km
2. 1000 km
3. 18000 km
4. 36000 km

Answer: 4. 36000 km

Q90. Honey-comb structure is found in

1. Black soils
2. Red soils
3. Salt-affected soils
4. Laterites and lateritic soils

Answer: 4. Laterites and lateritic soils

Q91. Match List | with List Il List II |. Master cation ll. Grey speck of oats C. Molybdenum Ill. Seed setting and fertilization IV. Whiptail of cauliflower Choose the correct answer from the options given below:

1. A — Ill, B- IV, C - 1, D — Il
2. A-IV,B-Ill, C - Ill, D — I
3. A-Il, B- Ill, C -IV, D - I
4. A-1,B- Ill, C - Il, D — IV

Answer: 3. A-II, B- III, C -IV, D - I

Q92. The optimum spacing (row x plant) of hybrid cotton grown in the irrigated areas

1. 60 x 30 cm
2. 90 x 45 cm
3. 120 x 60 cm
4. [missing]

Answer: 3. 120 x 60 cm

Q93. Given below are two statements Statement I: C3 plants are more efficient than C, plants in terms of carbon dioxide fixation Statement II: C4 plants are less water efficient and consume more amount of water than C3 plants for same amount of COp fixed. In light of the above statements, choose the correct answer from the options given below

1. Both Statement | and Statement II are true
2. Both Statement | and Statement II are false
3. Statement | is true but Statement II is false
4. Statement | is false but Statement II is true

Answer: 2. Both Statement | and Statement II are false

Q94. What is the optimum plant population for wheat crop?

1. 3.33 lakh/ ha
2. 4.33 lakh/ ha
3. 5.66 lakh/ ha

4. 6.66 lakh/ ha

Answer: 1. 3.33 lakh/ ha

Q95. Match List | with List Il List II A. Enooplasmic reticulum|!. Robert Brown, 1831 B.Nucleus___|Il. T. Boveri, 1888 Ill. F. Miescher, 1869 D. Nucleic acid IV. Carniar, 1897 Choose the correct answer from the options given below:

1. A -llll, B -I, C -IV, D-II

2. A-Il,B-Ill, C -1, D - IV

3. A-1,B-Il,C-IV, D - Ill

4. A-IV,B-I, C-II, D - III

Answer: [not found]

Q96. Contact us: 8920321513 Weight of a soil sample with can is 210 g and dry weight with can is 180 g. Weight of empty moisture can is 40 g. What will be moisture content of soil sample?

1. 218.7 %

2. 21.4 %

3. 25.7%

4. 27.3 %

Answer: 2. 21.4 %

Q97. In Ca and S deficient soils, gypsum placement should be done at

1. 10 days after sowing

2. 30 days after sowing

3. 50 days after sowing

4. 70 days after sowing

Answer: 1. 10 days after sowing

Q98. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: In a Global Positioning System (GPS), four satellites are accommodated in each orbit at an altitude of 20,185 km from surface of earth. Reason R: All these GPS satellites are placed in six orbits. In light of the above statements, choose the correct answer from the options given below

1. Both A and R are true and R is the correct explanation of A

2. Both A and R are true but R is NOT the correct explanation of A

3. Ais true but R is false

4. Ais false but R is true

Answer: [not found]

Q99. The optimum temperature for the ideal vegetative growth of wheat

1. 4-6 °C

2. 10-16 °C

3. 16-22 °C

4. 22-28 °C

Answer: 3. 16-22 °C

Q100. Orobanche is a problem weed in Contact us: 8920321513

1. Wheat

2. Tomato

3. Cotton

4. Sugarcane

Answer: 2. Tomato

Q101. The use of Stokes' law for measurement of the size of soil particle depends on certain simplifying assumptions. These are: A. Particles must be spherical, smooth and rigid B. Fall must be unhindered C. Particles must be of uniform density D. Size of particles must be small compared to the size of molecules of liquid Choose the correct answer from the options given below:

1. A, B and D only

2. A, B and C only

3. A, C and D only

4. B, C and D only

Answer: 2. A, B and C only

Q102. Land area needed to raise settlings for transplanting in 1 ha through spaced transplanting method of sugarcane

1. 50-100 m2

2. 500-600 m2

3. 1000-1100 m2

4. 1500-1600 m2

Answer: 1. 50-100 m2

Q103. Which of the following sequences is correct in terms of the Global Warming Potential?

1. CO2>CHy4>N20>SF.¢
2. SFg>N20>CH,4>COz
3. « N2O>CH4>CO2>SFe¢
4. N2O> Fg>CH4>COz

Answer: 2. SFg>N20>CH,4>COz

Q104. . as Contact us: 8920321513 Match List | with List Il Listt ist | C. Ukai Ill. Himachal Pradesh D. Jayalwadi IV. Tamil Nadu E. Adiyar V. Gujarat : Choose the correct answer from the options given below:

1. A- Il, B - Ill, C - V, D - 1, E - IV
2. A-Ill,B-IV,C-V,D-1, E - Ill
3. A-1,B-V,C-Ill, D - Il, E - IV
4. A-V,B-Ill,C-IV,D- Il, E - I

Answer: 1. A- Il, B - Ill, C - V, D - 1, E - IV

Q105. The optimum crop combination for strip cropping

1. Sorghum and pearl millet
2. Soybean and groundnut
3. Maize and mustard
4. Sorghum and greengram

Answer: 4. Sorghum and greengram

Q106. Match List | with List Il List Il abitat type A. Roadside |. Hydrilla verticillata . Xerophytic Il. Parthenium sp . Floating aquatic Ill. Pluchia lanceolata . Submerged aquatic IV. Eichhornia crassipes Choose the correct answer from the options given below:

1. A-Il,B-1,C- IV, D - Ill
2. A-Il,B-IV,C- Ill, D - 1
3. A-Il,B- Ill, C- IV, D- 1
4. A-Ill,B-1,C- IV, D - Il

Answer: 3. A-Il,B- Ill, C- IV, D- 1

Q107. Contact us: 8920321513 Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: When the water moving downward through a fine textured soil encounters a layer of course sand, the downward movement is temporarily increased until the soil suction in wetting front is sufficiently reduced Reason R: Presence of large macrospores in the coarse sand are too large to take in water from the unsaturated microspores of the soil rapidly. In light of the above statements, choose the most appropriate answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. Ais correct but R is not correct
4. Ais not correct but R is correct

Answer: 4. Ais not correct but R is correct

Q108. What is the enzyme responsible for carboxylation in C4 plants?

1. Phosphoenol pyruvic acid (PEP) carboxylase
2. Phosphophenol pyruvic acid (PEP) carboxylase

3. Phospho pyruvic acid (PEP) carboxylase

4. Phosphanol pyruvic acid (PEP) carboxylase

Answer: 1. Phosphoenol pyruvic acid (PEP) carboxylase

Q109. Conversion of glucose to glucose-6-phosphate, is catalyzed by

1. Aldolase

2. Enolase

3. Phosphofructokinase

4. Hexokinase

Answer: 4. Hexokinase

Q110. Farming in humid regions with growing period more than 120 days

1. Rainfed farming

2. Dryland farming

3. Dry faming

4. Conservation farming

Answer: 1. Rainfed farming

Q111. Terminal drought is also known as

1. arly season drought

2. Mid season drought

3. Late season drought

4. Invisible drought

Answer: 3. Late season drought

Q112. Given below are two statements Statement I: A soil with good tilth is quite porous and has free drainage up to water table Statement II: The capillary and non-capillary pores should be in a ratio of 1:4 so that sufficient amount of water is retained in the soil as well as free air In light of the above statements, choose the correct answer from the options given below

1. Both Statement | and Statement II are true
2. Both Statement | and Statement II are false
3. Statement | is true but Statement II is false
4. Statement | is false but Statement II is true

Answer: 3. Statement | is true but Statement II is false

Q113. Which of the following is responsible for the anthropogenic climate change phenomenon?

1. Volcanic eruption
2. Variation in earth's orbital characteristics or Milankovitch cycles
3. Variation in solar output
4. Effect of green house gases

Answer: 4. Effect of green house gases

Q114. The basic cell membrane structure consists of ..... and ..... in the animal cell of an organism.

1. Lipid bilayer

2. mbedded proteins

3. Golgi vesicles

4. Lipid bilayer and embedded proteins

Answer: [not found]

Q115. Match List | with List Il Theory proposed Author A. Root pressure theory |I. J. C . Bose is I B. Pulsation theory Il. Priestley C. Relay pump hypotheisjIII. Dixon and Joll D. Transpiration pull IV. Godlewski Choose the correct answer from the options given below:

1. A-1,B-Il, C - IV, D -Ill

2. A-ll,B-I,C-IV, D - Ill

3. A-ll, B -1, C - Ill, D -IV

4. A-lll,B-1,C -Il, D - IV

Answer: 2. A-ll,B-I,C-IV, D - Ill

Q116. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R Assertion A: After application of urea in soil, it undergoes hydrolysis where organic form of N is transformed to inorganic form of ammonium carbonate. The hydrolysis of urea is more in sandy soil than clay soil. Reason R: Urea molecule forms positive charged ion due to keto-eno/ formation or zwitterion formation, resulting formation of positive charged urea molecules which is adsorbed by the negatively charged clay. In light of the above statements, choose the correct answer from the options given below

1. Both A and R are true and R is the correct explanation of A

2. Both A and R are true but R is NOT the correct explanation of A

3. Ais true but R is false

4. Ais false but R is true

Answer: 3. Ais true but R is false

Q117. A 1.5 ha wheat crop field was supplied with 6 cm depth of irrigation, compute how many liters of water has gone into the field.

1. 4.5 lakh
2. 7.5 lakh
3. 9 lakh
4. [missing]

Answer: 3. 9 lakh

Q118. Deep sowing of chickpea is better than shallow depth in rainfed areas; which of the following statements not linked with benefits of deep sowing?

1. Reduces incidence of wilt
2. Promotes better root development
3. Promotes good germination
4. Protection of seed from U.V. radiation

Answer: 4. Protection of seed from U.V. radiation

Q119. Mineral having maximum cation exchange capacity is

1. Mica
2. Illite
3. Smectite
4. Kaolinite

Answer: 3. Smectite