

AGRONOMY (Code-05)

1. Who is the father of agro-meteorology in India ?
(A) Swaminathan (B) L A Ramdas
(C) Krishnan (D) Muralikrishna Nair
2. Which one of the following is the error d.f for a RCBD experiment with six treatments replicated five times?
(A) 15 (B) 12
(C) 20 (D) 24
3. Which one of the following is recommended to measure water flow from a pipe?
(A) Parshall flume (B) V-notch
(C) Venturi meter (D) Cul-throat flume
4. Which one of the following is the crop response curve to applied fertilizer?
(A) quadratic (B) linear
(C) hyperbolic (D) asymptotic
5. Which one of the following is most popular agro-technology evolved by ICRISAT ?
(A) Tie ridging (B) Graded furrow
(C) Broad bed and furrow (D) Vertical mulching
6. Which one of the following is the water flow for one acre-inch-day ?
(A) 0.042 c ft-sec (B) 4.2 c ft/sec
(C) 42 c ft/sec (D) 0.42 c ft/sec
7. Which one of the following State is known as Rice Bowl of India ?
(A) Andhra Pradesh (B) Chattisgarh
(C) Uttar Pradesh (D) Kerala
8. Which one of the following crop is commonly associated with *Orabanche* weed?
(A) Sorghum (B) Rice
(C) Tomato (D) Maize
9. Which one of the following is the unit value of Ammonium sulphate containing 20% N and costs Rs 640/t ?
(A) Rs 32/ kg N (B) Rs 3.2/ kg N
(C) Rs 320/ kg N (D) Rs 64/ kg N
10. Which one of the following is the equivalent acidity in kg/100 kg of urea fertilizer?
(A) 110 (B) 80
(C) 48 (D) 92
11. Which one of the following clay mineral rich in potassium ?
(A) Illite (B) Vermiculite
(C) Kaolinite (D) Silicate



12. Which one of the following element responsible for pollen development ?
 (A) Calcium (B) Nitrogen
 (C) Boron (D) Magnesium
13. Which one of the following is the soil water potential of ultimate wilting point ?
 (A) -0.3 bar (B) 15 bar
 (C) -33 bar (D) -60 bar
14. Which one of the following Country has largest area under drip irrigation in the world?
 (A) USA (B) India
 (C) Australia (D) Israel
15. Which one of the following weeds is having smallest seeds size ?
 (A) *Stinga* (B) *Achyranthes aspera*
 (C) *Eleusina coracana* (D) *Mesquite*
16. Which one of the following instrument measures Fibre fineness ?
 (A) Micronaire (B) Digital fibrograph
 (C) Pressely tester (D) odometer
17. Which one of the following primitive type of corn has less economic importance ?
 (A) Soft corn (B) Waxy corn
 (C) Pod corn (D) Flint corn
18. Which one of the following is an area of a crop commanded by one cusec flow in a season :
 (A) Delta (B) Duty
 (C) Water expense (D) Head
19. Which one of the following Country has International Development Research Centre?
 (A) Italy (B) Canada
 (C) USA (D) Switzerland
20. Which one of the following climatic region is predominant in acid soils ?
 (A) Temperate region (B) Arid region
 (C) Humid region (D) Snow fall region
21. Who is the author of the text book on "Irrigation theory and practice" ?
 (A) Panda S C
 (B) Y B Morachan
 (C) Michael A M
 (D) Reddy S R
22. Which one of the following is the data distribution when mean and median values are same ?
 (A) Poisson (B) Gamma
 (C) Gaussian (D) Normal

23. Which one of the following annual rainfall is to practice rainfed agriculture ?
 (A) 200-400 mm (B) 1150-2000 mm
 (C) 400-750 mm (D) 500-750 mm
24. Which one of the following equation to calculate the discharge through an orifice ?
 (A) $Q = 0.61 \times 10^{-3} a \sqrt{2gh}$
 (B) $Q = 0.0186 LH^{3/2}$
 (C) $Q = 0.16 \times 10^{-4} a \sqrt{2gh}$
 (D) $Q = 0.0138 H^{3/2}$
25. Which one of the following is associated with rhizosphere ?
 (A) Root zone (B) Soil depth
 (C) Soil-root interface (D) Microbial zone
26. Which one of the following is C:N ratio for most of the oil cakes ?
 (A) 1:5 (B) 1:30
 (C) 1:50 (D) 1:100
27. Which one of the following correlation type when one variable increases the other tends to increase ?
 (A) Positive (B) Negative
 (C) Multiplicative (D) Zero
28. Which one of the following is the cropping intensity if the total net cultivated area is 9.0 ha and the total cropped area is 18.0 ha ?
 (A) 50% (B) 200%
 (C) 150% (D) 100%
29. Which one of the following is the 1000 seed weight of soybean grown at 30 x 10 cm when seed rate is 75 kg ha⁻¹?
 (A) 225 g (B) 22.5 g
 (C) 750 g (D) 75 g
30. Which one of the following is ICAR's research repository for research management?
 (A) KRISHI (B) UNNATI
 (C) DHAN (D) SANGRAH
31. Which one of the following is the food grain production in India during 2016-17 ?
 (A) 255 million tonnes (B) 265 million tonnes
 (C) 272 million tonnes (D) 282 million tonnes
32. Which one of the following is the number of AERs in India as per NBSS & LUP ?
 (A) 8 (B) 15
 (C) 21 (D) 131
33. Which one of the following Soil crusting is a problem ?
 (A) Vertisol (B) Alfisol
 (C) Inceptisol (D) Aridisol

45. Which one of the following is a native weed?
- (A) *Cenchrus ciliaris* (B) *Ageratum conyzoides*
(C) *Cassia tora* (D) *Chenopodium album*
35. Which one of the following describes the characteristics of Sedges?
- (A) Triangular stem, tristichous leaf arrangement and absence of ligules
(B) Triangular stem, distichous arrangement and absence of ligules
(C) Cylindrical stem, distichous leaf arrangement and presence of ligules
(D) Cylindrical stem, tristichous leaf arrangement and absence of ligules
36. Which one of the following is an introduced quarantine weed in India?
- (A) *Solanum carolinense* (B) *Echinochloa crusgalli*
(C) *Lantana camara* (D) *Chromolaena odorata*
37. Which one of the following stimulates the germination of *Striga* seeds?
- (A) MH (B) IAA
(C) Ethylene (D) Gibberellin
38. Which one of the following scientists coined the term allelopathy in 1937?
- (A) Hans Molisch (B) Rice
(C) Stickney and Hoy (D) Davis
39. Which one of the following is the first herbicide resistant weed reported in India?
- (A) *Rumex crispus* (B) *Trianthema portulacastrum*
(C) *Phalaris minor* (D) *Avena fatua*
40. Which one of the following is the group of herbicide affecting synthesis of amino acids like valine, leucine and isoleucine?
- (A) Sulfonylureas (B) Triazines
(C) Dinitroaniline (D) Thiocarbamates
41. Which one of the following designs is recommended for experiments with homogeneous experimental units?
- (A) CRD (B) RBD
(C) Split plot (D) Strip plot
42. Which one of the following is the delta of crop if the duty of water for a base period of 120 days is equal to 1200 ha.?
- (A) 8.64 cm (B) 64.8 cm
(C) 48.6 cm (D) 86.4 cm
43. Which one of the following is subjected to photo-decomposition?
- (A) Fluchloralin (B) Butachlor
(C) Oretlachlor (D) Quizalofop-ethyl
44. Which one of the following is an asymmetrical triazine?
- (A) Alrazine (B) Simazine
(C) Ametrin (D) Metribuzin



45. Which one of the following is used for weed control in rice?
- (A) 2, 4-D (B) Bispyribac Na
(C) Fenoxaprop-p-ethyl (D) Pretilachlor
46. Which one of the following crop yield both oil and fibre?
- (A) Jute (B) Sannhemp
(C) Linseed (D) Niger
47. Which one of the following rainfall quantity is required in a day of 24 hours to call it a rainy day?
- (A) 0.5 mm or more (B) 1.0 mm or more
(C) 2.5 mm or more (D) 5.0 mm or more
48. Which one of the following defines differential moisture content at a given suction during wetting and drying?
- (A) Heterosis (B) Sorption
(C) Hysteresis (D) Desorption
49. Which one of the following microorganism oxidizes nitrite to nitrate?
- (A) *Nitrosomonas* (B) *Azotobacter*
(C) *Clostridium* (D) *Nitrobacter*
50. Which one of the following is associated with Aroma in rice?
- (A) 2-Acetyl-1-Pyrroline (B) Erucic acid
(C) Thioester (D) Linolenic acid
51. Which one of the following scientist defined the criteria of essentiality of nutrients in plants?
- (A) D.J Nicholas (B) Arnon and Stout
(C) J.S Kanwar (D) Rajendra Prasad
52. Which one of the following element is an important constituent of chlorophyll?
- (A) Mg (B) Zn
(C) Mo (D) B
53. Which one of the following is responsible for pulses to perform better after direct seeded rice than that after puddle transplanted rice?
- (A) Improved soil texture
(B) Better soil micro nutrient status
(C) Improved soil structure
(D) Better soil macro nutrient status
54. Mawsynram, the place with the highest rainfall in India is located in:
- (A) Assam (B) West Bengal
(C) Meghalaya (D) Kerala
55. Trickle irrigation is recommended for which one of the following crops?
- (A) Mango (B) Coriander
(C) Greens (D) Radish

56. Which one of the following crop is otherwise known as Kenaf ?
 (A) Mesta (B) Sunhemp
 (C) Agave (D) Jute
57. Which one of the following is the other parent to be crossed with Dee-Geo-Woo-Gen to develop the semi-dwarf variety IR-8?
 (A) Jaya (B) TN-1
 (C) Peta (D) Vijaya
58. Which one of the following is determined by Tetrazolium test ?
 (A) Seed purity (B) Seed quality
 (C) Seed germination (D) Seed viability
59. To which one of the following common bread wheat ($2n = 42$) belong :
 (A) Hexaploid (B) Tetraploid
 (C) Triploid (D) Diploid
60. Photosynthetically active radiation comes under which of the following spectral wavelength :
 (A) 0.4 to 0.7 μm (B) 1.0 to 4.0 μm
 (C) 0.1 to 0.3 μm (D) 4.0 to 7.0 μm
61. Which one of the following is the factor for conversion of ppm to kg/ha ?
 (A) 2.29 (B) 2.24
 (C) 1.20 (D) 0.0662
62. Which of following fungi is used as a bio-control agent of plant diseases?
 (A) *Beauveria bassiana*
 (B) *Metarhizium anisopliae*
 (C) *Verticillium lecanii*
 (D) *Trichoderma harzianum*
63. Which one of the following term is used when the tax rate increases with increase in the level of income and vice versa ?
 (A) Proportional taxation (B) Digressive taxation
 (C) Regressive taxation (D) Progressive taxation
64. Out of the following quantity, which is required to irrigate 1.0 ha land area with 50mm depth of irrigation ?
 (A) 100 litres (B) 1000 litres
 (C) 10000 litres (D) 100000 litres
65. The ICAR was established during which of the following year :
 (A) 1929 (B) 1949
 (C) 1962 (D) 1972
66. Which of the following is a stemless perennial sedge ?
 (A) Palmarosa (B) Lemon grass

87. Which of the followings is epimeral weed?
- (A) *Amaranthus viridis* (B) *Phyllanthus niruri*
(C) *Lantana camera* (D) *Avena fatua*
68. Which of the following mycoherbicide is used to control dodder?
- (A) Devine (B) Bipolans
(C) Collego (D) Smolder
69. Which of the followings is non-selective, foliage active translocated herbicide?
- (A) Glyphosate (B) Paraquat
(C) Trifluralin (D) Alachlor
70. If a crop is to be irrigated at 0.8 IW:CPE with 60 mm depth, after which of the following should it be irrigated?
- (A) 60 mm CPE (B) 75 mm CPE
(C) 80 mm CPE (D) 70 mm CPE
71. Which one of the following moisture will be available if the field capacity is 18% and permanent wilting point is 6%?
- (A) 8% (B) 10%
(C) 12% (D) 14%
72. Which one of the following term is coined when plants cannot absorb any water and die eventually?
- (A) Field capacity (B) Ultimate wilting point
(C) Hygroscopic water (D) Permanent wilting point
73. Iron is absorbed by plants in which of the following forms?
- (A) Fe^{2+} (B) Fe^{4+}
(C) Fe (D) Fe^{3+}
74. What quantity of Urea is required for top dressing of two acre of wheat field at a dose of 60 kg N/ha?
- (A) 52 kg (B) 104 kg
(C) 130 kg (D) 260 kg
75. Which one of the following is the nutrient has a key role in biological N-fixation?
- (A) Nitrogen (B) Phosphorus
(C) Chlorine (D) Molybdenum
76. Which one of the following is the unit of water use efficiency?
- (A) kg-ha/mm (B) kg/ha-mm
(C) kg/mm-ha (D) ha/kg-mm
77. Accumulation of which of the following is considered as good indicator for water stress?
- (A) Cysteine (B) Methionine
(C) GA (D) Proline

(A) Hydrogen
(C) Oxygen

(B) Methane
(D) Carbon monoxide

79. For which of the following soils is Rock phosphate a suitable fertilizer for soils, is :
- (A) Saline
(C) Acidic
- (B) Alkaline
(D) Neutral
80. Which one of the following botanical is referred to Potato tuber ?
- (A) Rhizome
(C) Stolon
- (B) Bulb
(D) Sucker
81. Which one of the following is responsible for run-off?
- (A) Soil slope
(B) Low rate of infiltration
(C) High intensity rainfall
(D) All of these
82. Which one of the following type of nozzle is suitable for application of contact type of herbicide on dense weedy patches?
- (A) Flat-fan
(C) Flood-jet
- (B) Solid cone
(D) Centrifugal
83. Which one of the following is a physical method of weed control?
- (A) Crop rotation
(C) Mowing
- (B) Stale seed bed
(D) Summer fallowing
84. Which one of the following type of fertilizers has Uranium-238 contamination?
- (A) Nitrogenous
(C) Potassic
- (B) Phosphatic
(D) Sulphur containing
85. Which one of the following is hydrolase enzyme occurring in soil ?
- (A) Glutaminase
(C) Peroxidase
- (B) Catalase
(D) Dehydrogenase
86. Which one of the following crop is called biological plough of soil?
- (A) Green gram
(C) Pigeonpea
- (B) Blackgram
(D) Soybean
87. In which of the following advancement of monsoon in India takes place ?
- (A) Kerala coast
(C) Pondicherry
- (B) Andhra coast
(D) Mumbai coast
88. Which one of the following terminology for viruses which feed on bacteria?
- (A) Viron
(B) Viriodes
(C) Bacteriophage
(D) Rota virus

89. Which one of the following explains the relationship between growth duration and temperature ?
 (A) Heat unit (B) Photoperiodism
 (C) Thermosensitivity (D) Photosynthetic pathway
90. Which one of the following crop growth phases influenced most by relative length of day and night?
 (A) Seed germination (B) Leaf production
 (C) Floral initiation (D) Fruit maturity
91. Which one of the following Country leads in maximum ground nut production in the World?
 (A) India (B) China
 (C) Brazil (D) Nigeria
92. Which one of the following is responsible for Rice tungro virus transmission?
 (A) Mites (B) Green leaf hopper
 (C) Stem borer (D) White fly
93. Which one of the following is Sesame plant response to day length ?
 (A) Qualitative short day plant
 (B) Quantitative short day plant
 (C) Qualitative long day plant
 (D) Quantitative long day plant
94. In which type of groundnut group alternate branching pattern occurs ?
 (A) Only Virginia (B) Virginia and Spanish
 (C) Only Spanish (D) Only Valencia
95. Which one of the following HCN content in sorghum results in animal toxicity?
 (A) 100 ppm (B) 200 ppm
 (C) 250 ppm (D) 300 ppm
96. Which one of the following is color of endosperm of weedy rice ?
 (A) White (B) Yellow
 (C) Red (D) Yellow-white
97. Which one of the following is the genera of Rapeseed-mustard ?
 (A) Brassica (B) Brassica and Eruca
 (C) Brassica and Sinapsis (D) Brassica Eruca and Sinapsis
98. Which one of the following millet can withstand drought and water logging?
 (A) Finger millet (B) Foxtail millet
 (C) Kodo millet (D) Little millet
99. Which fatty acid in mustard oil imparts longer shelf life?
 (A) Oleic acid (B) Linoleic acid
 (C) Linolenic acid (D) Stearic acid

100. In which of the following States in India leads in cotton production?
- (A) Tamilnadu and Andhra Pradesh
 (B) Tamilnadu and Karnataka
 (C) Maharashtra and Karnataka
 (D) Maharashtra and Gujarat
101. Which one of the following is the first hybrid of sunflower released in India?
- (A) DSH 1 (B) Morden
 (C) DSH 1 (D) DRSH 1
102. Which one of the following crop has the longest crop-weed competition critical period?
- (A) Chickpea (B) Lentil
 (C) Horsegram (D) Pigeonpea
103. According to estimation, how much cultivated area in India will remain rainfed even after reaching the full irrigation potential?
- (A) 30% (B) 40%
 (C) 45% (D) 50%
104. Which one of the following element promotes formation of vitamin A in plants ?
- (A) Fe (B) Cu
 (C) Mn (D) Zn
105. Which one of the following element largely influence calcium metabolism in plants?
- (A) Boron (B) Iron
 (C) Nitrogen (D) Copper
106. Which one of the following is the selenium form in selenite ?
- (A) Se^{2-} (B) SeO
 (C) SeO_3^{2-} (D) SeO_4^{2-}
107. Which one of the following is not a physical indicator of soil?
- (A) Consistence (B) Penetration resistance
 (C) Buffering capacity (D) Soil strength
108. Which one of the following is volume of water necessary to cover an area of 1.0 ha to a depth of 5 cm ?
- (A) 100 M^3 (B) 500 M^3
 (C) 50 M^3 (D) 1000 M^3
109. Which one of the following is associated with opening and closing of stomata ?
- (A) Sunlight (B) Water pressure
 (C) Transpiration (D) Temperature
110. Which one of the following is a perennial fiber crop grows in high rainfall region.
- (A) Cotton (B) Ramie

the surface of the earth by condensation of atmospheric vapour

- (A) Dew (B) Fog
(C) Mist (D) Frost
112. Which one of the following is the science which deals with the study of home of crops ?
(A) Crop ecology (B) Plant ecology
(C) Ecology (D) Agricultural ecology
113. Which one of the following soil type will have maximum soil erodability to factor ?
(A) Red loam (B) Clay loam
(C) Alluvial (D) Sandy loam
114. Which one of the following plant part through which Napier grass is multiplied
(A) Seed (B) Stem
(C) Root slip (D) Root
115. Which are of the following stages of a crop are more prone to weed competition?
(A) Germination to seedling
(B) Vegetative phase
(C) Reproductive phase
(D) Maturity phase
116. Which one of the following farming systems receives average annual rain fall > 1150 mm ?
(A) Dry farming (B) Dry land farming
(C) Dry land agriculture (D) Rainfed farming
117. Which one of the following is measured by Pyranometer ?
(A) Light duration (B) Solar radiation
(C) Evaporation rate (D) Wind speed
118. In which one of the following Country Hybrid rice for commercial production was first evolved?
(A) India (B) China
(C) Japan (D) USA
119. Which one of the following is considered when the calculated F is greater than table F value at 5% only, the differences in treatments is ?
(A) Significant (B) Highly significant
(C) Non significant (D) At par
120. Which one of the following is in order of Heavy metal content in different vegetative part of the vegetable plants ?
(A) Fruit>Root>leaves
(B) Root>Leaves>Fruit
(C) Fruit> leaves > Root
(D) Leaves>Root>Fruit

121. Which one of the following terminology is used for the process of accumulation of soluble salts at the surface or at some point below the surface of the soil profile ?
- (A) Acidification
(B) Alkalization
(C) Salinization
(D) Neutralization
122. Which one of the following developed Indore method of composting ?
- (A) Richards
(B) Howard
(C) Acharya
(D) Flower
123. Which one of the following term is used for the pressure exerted by water vapour in a saturated state ?
- (A) Vapour pressure
(B) Saturated vapour pressure
(C) Partial pressure
(D) Vapour pressure deficit
124. Which colour of the lag is used for foundation stage seed ?
- (A) White
(B) Golden
(C) Blue
(D) Red
125. Which one of the following farming system where farmers move seasonally with their herd ?
- (A) Sedentary farming
(B) Subsistence farming
(C) Nomadic farming
(D) Arable farming
126. Which one of the following quantity of fresh biomass is added by sunhemp green manure in 50-60 DAS ?
- (A) 15-25 t
(B) 35-50 t
(C) 60-75 t
(D) 80-95 t
127. In which one of the following shifting cultivation, locally known 'Jhuming' is widely practiced ?
- (A) North-East India
(B) Rajasthan
(C) Central Himalaya
(D) Karnataka
128. *Phalaris minor* is also known as
- (A) Bermuda grass
(B) Canary grass
(C) Kans
(D) Water Hyacinth
129. One acre is equivalent to
- (A) 1.800 ha
(B) 0.652 ha
(C) 0.404 ha
(D) 0.038 ha
130. Smog is produced due to
- (A) Air and metal dust
(B) Water and nitrogen oxide
(C) Smoke and fog
(D) None



131. Which one of the following instrument is used to measure wind speed?
(A) Windvane (B) Anemometer
(C) Hygrometer (D) Thermometer
132. Which of the following process is related to transpiration?
(A) Osmosis
(B) Diffusion
(C) Activated transport
(D) Facilitated diffusion
133. One kilogram of nitrogen is equivalent to which of the following quantity of urea?
(A) 2.17 kg urea (B) 3.22 kg urea
(C) 4.22 kg urea (D) 1.76 kg urea
134. Which of the following salt is predominant in saline water?
(A) Sodium carbonate
(B) Sodium chloride
(C) Magnesium sulphate
(D) Calcium chloride
135. What is the area sprayed by a full tank of a sprayer, if the volume of the sprayer tank is 225 litres and rate of spray application/ ha is 150 litres?
(A) 1.25 ha (B) 1.50 ha
(C) 1.75 ha (D) 2.00 ha
136. Which of the following term is used to referred to the number of cigarettes that can be made out of one pound of tobacco?
(A) Curing quality (B) Burning quality
(C) Filling quality (D) Priming quality
137. Which of the following antioxidant is present in sesame oil?
(A) Sesamin (B) Aspergillus
(C) Argemone (D) Canola
138. *Cedrus deodara* is famous for making of which of the following?
(A) Pencils (B) Plywood
(C) Packing cases (D) Paper
139. The areas suffering from non-availability of ground water due to over exploitation are popularly referred to as which of the following?
(A) Dark areas (B) Shallow areas
(C) Pink areas (D) Degraded areas
140. If the rate of application per hectare is 0.75 kg a.i. per hectare and concentration of herbicide is WP 75% then required quantity is which of the following?
(A) 0.75 kg/ha (B) 1.0 kg/ha
(C) 1.25 kg/ha (D) 1.50 g/ha

141. For application of 45 kg N and 115 kg P_2O_5 , how much the following quantity of DAP is required ?
- (A) 200 kg (B) 300 kg
(C) 100 kg (D) 150 kg
142. Which of the following agronomic measure is used for soil conservation ?
- (A) Gully plugging (B) Terracing
(C) Strip cropping (D) Bunding
143. Which of the following term is used for the system of raising arable crops along with the fruit trees ?
- (A) Agri silviculture
(B) Agri horticulture
(C) Horti-pastoral
(D) Silviculture
144. Depth of sowing depends on which of the following ?
- (A) Seed size (B) Seed shape
(C) Seed quality (D) Seed viability
145. Small plants may suffer from deficient oxygen when covered with densely packed snow due to which of the following condition ?
- (A) Heaving (B) Dessication
(C) Suffocation (D) Chilling
146. The harvestable product of a tea plant under commercial plantation is:
- (A) Seed (B) Tender shoot
(C) Bark (D) Root
147. Tea plant in natural growing condition can be termed as which of the following:
- (A) Shrub (B) Vme
(C) Small tree (D) Herb
148. 'Centering', the first cut on a young tea plant is at which of the following heights from the ground level ?
- (A) 15 cm (B) 25 cm
(C) 20 cm (D) 30 cm
149. For which of the following reasons are shade trees grown in a tea plantation ?
- (A) Maintain optimum temperature
(B) Provide comfort to the tea pluckers
(C) Add organic matter to soil
(D) Reduce impact of rainfall intensity
150. Manuring in mature tea is done on the basis of which of the following ?
- (A) Soil nutrient status
(B) Plant nutrient status
(C) Amount of rainfall

DIRECTIONS: (Question No. 151 to 160) Cross matching type questions. Each sub-question carries ONE mark. Choose the correct answer (A, B, C, D and E) for each sub-question (i, ii, iii, iv and v) and enter your choice in the circle (by shading with Black/Blue Ball Point Pen) on the OMR- Answer Sheet. For each wrong answer 0.20 marks will be deducted.

151. Match the following:

	Organization		Location
(i)	IIFSR	(A)	Delhi
(ii)	CRRI	(B)	Dehradun
(iii)	CTRI	(C)	Modipuram
(iv)	IISWC	(D)	Rajahmundry
(v)	IIMR	(E)	Cuttack

152. Match the following:

	Weed		Scientific Name
(i)	Carrotgrass	(A)	<i>Sorghum halepense</i>
(ii)	Wild oat	(B)	<i>Echinochloa crassipes</i>
(iii)	Johnsongrass	(C)	<i>Cirsium spp</i>
(iv)	Dodder	(D)	<i>Avena fatua</i>
(v)	Waterhyacinth	(E)	<i>Pistia nystrophioides</i>

153. Match the following:

	Plant Type		Character
(i)	Halophytes	(A)	Tolerant to saline condition
(ii)	Oxylophytes	(B)	Grow on wasteland and hard soil
(iii)	Psychrophytes	(C)	Grow on rock fissures
(iv)	Chasmophytes	(D)	Grow in low temperature
(v)	Chersophytes	(E)	Tolerant to acidic condition

154. Match the following:

	Radiation		Instrument
(i)	Total incoming radiation	(A)	Albedometer
(ii)	Diffused radiation	(B)	Quantum sensor
(iii)	Reflectivity	(C)	Pyrheliometer
(iv)	Direct solar radiation	(D)	Shading pyranometer
(v)	PAR	(E)	Pyranometer

155. Match the following:

	Instrument		Measured Parameter
(i)	Thermocouple psychrometer	(A)	Rate of water flow
(ii)	Current meter	(B)	Quantity of water
(iii)	Weirs	(C)	Flow of water in pipe
(iv)	Venturi meter	(D)	Soil moisture potential
(v)	Flume	(E)	Velocity of water flow

156. Match the following

Crop	Special Purpose
(i) Radish	(A) Nurse crop
(ii) Sugarcane	(B) Cover crop
(iii) Kidneybean	(C) Contour crop
(iv) Clusterbean	(D) Catch crop
(v) Marvel grass	(E) Energy crop

157. Match the following:

Fertilizer	Phosphorus Content
(i) Raw bone meal	(A) 20%
(ii) SSP	(B) 16%
(iii) Basic slag	(C) 8%
(iv) Ammonium phosphate sulphate	(D) 20%
(v) Rock phosphate	(E) 27%

158. Match the following:

Crop	Industrial Product
(i) Heavea	(A) Chocolate
(ii) Jute	(B) Fiber
(iii) Cotton	(C) Oil
(iv) Groundnut	(D) Textile
(v) Cocoa	(E) Rubber

159. Match the following:

Herbicide	Mode of action
(i) Paraquat	(A) Seedling shoot growth inhibitor
(ii) Glyphosate	(B) PS-II inhibitor
(iii) Metolachlor	(C) Cell membrane disrupters
(iv) Pendimethalin	(D) EPSP Synthase inhibitor
(v) Atrazine	(E) Microtubule inhibitor

160. Match the following:

(i) Black tea	(A) Unoxidised polyphenols
(ii) Oolong tea	(B) Semi oxidised polyphenols
(iii) White tea	(C) Oxidised polyphenols
(iv) Green tea	(D) Rolled leaf
(v) Orthodox tea	(E) Made of only buds