

PART-B
AGRICULTURE SCIENCE

51. The term 'Ecosystem' was coined and defined by-
- (A) Odum
 - (B) Charles Elton
 - (C) Arthur Transley
 - (D) Victor Shelford
52. Widespread species which are not identical in all parts of their range are referred as-
- (A) Breed
 - (B) Ecotypes
 - (C) Variety
 - (D) Hybrid
53. Number of photons required by plants to fix one molecule of CO₂ at 10-25°C and normal CO₂ and O₂ levels are-
- (A) 10
 - (B) 15
 - (C) 12
 - (D) 14
54. Foliage -applied urea herbicides are-
- (A) Isoproturon, Linuron and Diuron
 - (B) Isoproturon, Alachlor and Propanil
 - (C) Isoproturon, Sulfosulfuron and Oxyfluorfen
 - (D) Metribuzin, Atrazine and 2,4 D
55. Photosynthesis inhibiting herbicides are-
- (A) Phenoxy
 - (B) Phenols
 - (C) Ureas
 - (D) Carbamates
56. Appropriate time of application of 2,4 D in wheat is-
- (A) 20-25 days
 - (B) 30-35 days
 - (C) 40-50 days
 - (D) 50-6- days
57. Nutrients absorbed by plants as cation are-
- (A) Ca, S, Ni and Mn
 - (B) Zn, Ca, P and N
 - (C) Ca, K, Ni and Mg
 - (D) N, P, K and Fe
58. White bud of maize is caused by-
- (A) Fe deficiency
 - (B) Zn deficiency
 - (C) Bacterial infection
 - (D) Boron deficiency

59. Heart rot of Sugar-beet is caused by-
- (A) Mo deficiency
 - (B) High temperature
 - (C) Boron toxicity
 - (D) Boron deficiency
60. ICAR - Central Research Institute for Dryland Agriculture is located at-
- (A) Hyderabad
 - (B) Nagpur
 - (C) Cuttack
 - (D) New Delhi
61. The moisture index as suggested by Krishnan (1988) is-
- (A) $MI = P \times PE/PE \times 100$
 - (B) $MI = P \times PE/P \times 100$
 - (C) $MI = P \times PE \times 100$
 - (D) $MI = PE \times 100$
62. Hydrogen ion concentration in soil solution is referred as-
- (A) Exchangeable acidity
 - (B) Reserve acidity
 - (C) Active acidity
 - (D) Total acidity
63. The pH of Alkali soils is-
- (A) >8.5
 - (B) >7
 - (C) $6.5-7.5$
 - (D) <7
64. Electrical conductivity of saline-alkali soils is-
- (A) < 2 ds/m
 - (B) < 4 ds/m
 - (C) > 4 ds/m
 - (D) 2 ds/m
65. The variety DBW 187 belongs to -
- (A) Wheat
 - (B) Rice
 - (C) Triticale
 - (D) Finger-millet
66. Eleusine coracana is-
- (A) Finger- millet
 - (B) Foxtail millet
 - (C) Kodo-millet
 - (D) Porso -millet

67. Which one is anti-quality factor in mustard oil-
- (A) Erucic acid
 - (B) Oleic acid
 - (C) Linoleic acid
 - (D) Linolenic acid
68. The 'hysteresis' in soil moisture characteristic curve occurs due to-
- (A) Ink-bottle effect
 - (B) Different contact angles for advancing and receding water menisci
 - (C) Entrapped air during adsorption
 - (D) Above all
69. The National Centre of Organic Farming (GOI) came into force in the year-
- (A) 1921
 - (B) 2020
 - (C) 2014
 - (D) 2004
70. Jhoom cultivation is a common practice in the state-
- (A) Uttar Pradesh
 - (B) Punjab
 - (C) Haryana
 - (D) Meghalaya
71. Tricyclazole is effective for the management of-
- (A) Citrus canker
 - (B) Late blight of potato
 - (C) Wilt of red gram
 - (D) Blast of rice
72. Ear cockle disease of wheat was first time reported by Needham in year-
- (A) 1973
 - (B) 1843
 - (C) 1743
 - (D) 1773
73. Which of the sugarcane disease is caused by Phytoplasma-
- (A) GSD
 - (B) RSD
 - (C) Red rot
 - (D) Smut
74. Symptoms of stem gall of coriander appears on-
- (A) Stem
 - (B) Fruit
 - (C) Leaves
 - (D) On all

75. During off-season, pathogen of powdery mildew survives in form of-
- (A) Conidia
 - (B) Dormant mycelium
 - (C) Ascocarp
 - (D) None of these
76. The bacterial bioagent of PPN is-
- (A) Paecilomyces lilacinus
 - (B) Pasteuria penitrens
 - (C) Catenaria spp.
 - (D) All of these
77. Post-harvest disease of potato is-
- (A) Early blight
 - (B) Black scurf
 - (C) Black heart
 - (D) None of these
78. Completely closed fruit carp is known as-
- (A) Cleistothecium
 - (B) Perithecium
 - (C) Apothecium
 - (D) Conidia
79. Meso-biotic cause of plant disease is-
- (A) Bacteria
 - (B) Fungi
 - (C) Nematode
 - (D) Viruses
80. In Bt cotton, the Bt toxin present in plant tissue as protoxin is converted into active toxin due to-
- (A) Alkaline pH of the insect gut
 - (B) Acidic pH of the insect gut
 - (C) Action of gut microorganisms
 - (D) Presence of conversion factors in insect gut
81. Premature leaf fall is due to the deficiency of-
- (A) Phosphorus
 - (B) Nitrogen
 - (C) Iron
 - (D) Calcium
82. Identifying a phenotype or function from the gene sequence is known as-
- (A) Reverse genetics
 - (B) Forward genetics
 - (C) Classical genetics
 - (D) Molecular genetics

83. In his classical experiments on pea, plants, Mendel did'nt use-
- (A) Pod length
 - (B) Seed shape
 - (C) Flower position
 - (D) Sed colour
84. Part of genome which is transcriptionally active is-
- (A) Euchromatin
 - (B) Heterochromatin
 - (C) Repetitive DNA
 - (D) Unique DNA
85. The size of rice genome is-
- (A) 280 Mb
 - (B) 430 Mb
 - (C) 480 Mb
 - (D) 580 Mb
86. Unisexuality of flowers prevents-
- (A) Autogamy but not geitonogamy
 - (B) Autogamy and geitonogamy
 - (C) Geitonogamy and xenogamy
 - (D) None of these
87. Which of the following is more static -?
- (A) Genome
 - (B) Proteome
 - (C) Transcriptome
 - (D) Metabolome
88. At present which transgenic crop is being commercially cultivated in India-
- (A) Cotton
 - (B) Brinjal
 - (C) Maize
 - (D) Potato
89. In a self-pollinated crop which breeding method would you like to utilize to eliminate a particular defect of a popular variety-
- (A) Pedigree method
 - (B) Back cross method
 - (C) Bulk method
 - (D) Mass selection
90. The correct statement is-
- (A) The primary CO₂ acceptor is 5-carbon compound in C₄ cycle
 - (B) Photorespiration in C₃ plants starts from phosphoglycerate
 - (C) Bundle sheath cells has PEPcase enzyme for CO₂ fixation
 - (D) In C₄ plants, the initial carboxylation reaction occurs in mesophyll cells

91. In an insect, vertex is the part of-
- (A) Legs
 - (B) Antennae
 - (C) Wings
 - (D) Head
92. Rasping and sucking type mouth parts are found in-
- (A) Honeybee
 - (B) Thrips
 - (C) Plant bugs
 - (D) Moths and butterflies
93. The major area of digestion and absorption in insect digestive system is-
- (A) Mid gut
 - (B) Fore gut
 - (C) Gastric caeca
 - (D) Hind gut
94. Trichogramma wasps are-
- (A) Predators
 - (B) Parasites
 - (C) Parasitoids
 - (D) Red wasps
95. According to FAO, Integrated Pest management is a practice of -
- (A) Keeping pest level below Economic threshold level
 - (B) Keeping the pest level below economic injury level
 - (C) Keeping the pest level below damage boundary level
 - (D) Keeping the pest level below economic damage level
96. Converting ground nut into oil creates -
- (A) Place utility
 - (B) Farm utility
 - (C) Time utility
 - (D) Possession utility
97. A flourmill opening its retail outlet is an example of -
- (A) Horizontal integration
 - (B) Forward integration
 - (C) Conglomeration
 - (D) Backward integration
98. Optimizing the use of farm resources on an individual farm is -
- (A) Farm management
 - (B) Agricultural marketing
 - (C) Macroeconomics
 - (D) Production economics

99. If RBI reduces the cash reserve ratio, credit creation will-
- (A) Remain unaffected
 - (B) Decrease
 - (C) Increase
 - (d) Not certain
100. At the point of inflexion, the marginal product is -
- (A) Decreasing
 - (B) Increasing
 - (C) Maximum
 - (D) Negative

ROUGH WORK

Answer Key: Agriculture Science

Question No	Correct option	Question No	Correct option
51.	C	76.	B
52.	B	77.	C
53.	B	78.	A
54.	A	79.	D
55.	C	80.	A
56.	B	81.	A
57.	C	82.	A
58.	B	83.	A
59.	D	84.	A
60.	A	85.	B
61.	A	86.	A
62.	C	87.	A
63.	A	88.	A
64.	C	89.	B
65.	A	90.	D
66.	A	91.	D
67.	A	92.	B
68.	D	93.	A
69.	D	94.	C
70.	D	95.	A
71.	D	96.	B
72.	C	97.	B
73.	A	98.	A
74.	D	99.	C
75.	C	100	C