

**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 CO<sub>2</sub> at 10-25°C and normal CO<sub>2</sub> and O<sub>2</sub> 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 CO<sub>2</sub> acceptor is 5-carbon compound in C<sub>4</sub> cycle
  - (B) Photorespiration in C<sub>3</sub> plants starts from phosphoglycerate
  - (C) Bundle sheath cells has PEPcase enzyme for CO<sub>2</sub> fixation
  - (D) In C<sub>4</sub> 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