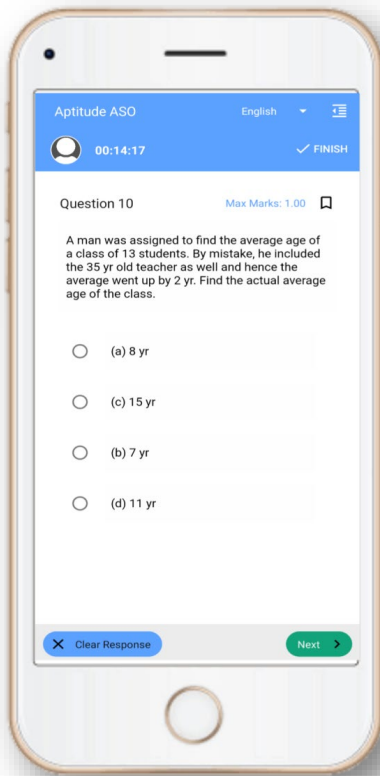


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B - SECTION - III
SCIENCE (CBZ)
BOTANY

61. The maiden-hair tree is :
(A) Adiantum
(B) Pinus
(C) Ginkgo biloba
(D) Gnetum ula
62. The phylogenetic basis of classification proposed by John Hutchinson was presented in the book :
(A) Systema nature
(B) Introduction to the natural orders of plants
(C) Fundamental botanica
(D) The families of flowering plants
63. Seedless vascular cryptogams are :
(A) Monocots
(B) Ferns
(C) Liverworts
(D) Gymnosperms
64. Where can the maximum biodiversity be seen ?
(A) Tropical Rain Forest
(B) Temperate Rain Forest
(C) Alpine Forest
(D) Mediterranean Forest
65. Which is not an element of phloem tissue ?
(A) Sieve tubes
(B) Companion cells
(C) Bast fibres
(D) Wood parenchyma
66. Sapwood is synonymous with :
(A) Bark
(B) Periderm
(C) Inner layers of secondary xylem
(D) Outer layers of secondary xylem
67. Indicate the features of a dicot stem :
(A) Vascular bundles closed, collateral and exarch
(B) Vascular bundles scattered, more towards the periphery
(C) Vascular bundles with bundles radial, exarch and closed
(D) Vascular bundles are conjoint, collateral, open and endarch
68. Which organelle does not participate in photorespiration ?
(A) Peroxisome
(B) Mitochondria
(C) Golgi bodies
(D) Chloroplast
69. Which are the products of cyclic photophosphorylation during photosynthesis ?
(A) ATP + O₂
(B) NADH + O₂
(C) ATP + NADH
(D) ATP + NADH + O₂
70. The structure of chlorophyll molecule shows a porphyrin head and phytol tail. Porphyrin is a cyclic-tetra pyrrole ring to which phytol tail is attached. To which ring of porphyrin is the phytol tail attached ?
(A) I
(B) II
(C) III
(D) IV

71. Which effect does treatment of gibberellins have on cabbage leaves ?
(A) Abscission
(B) Bolting
(C) Delayed senescence
(D) Early senescence
72. The phenomenon of single gene contributing to multiple phenotypic traits is called :
(A) Pleiotropy
(B) Multiple allelism
(C) Co-dominance
(D) Polygenic inheritance
73. Exogenously borne non-motile asexual reproductive units in Ascomycetes are called :
(A) Conidia
(B) Ascospore
(C) Basidiospore
(D) Zoospores
74. Which disease of wheat is caused by Ustilago ?
(A) Rust
(B) Leaf spot
(C) Smut
(D) Blast
75. The entry of pollen tube through the micropyle is :
(A) Allogamy
(B) Geitonogamy
(C) Porogamy
(D) Chalazogamy
76. Micropropagation is :
(A) Production of plants from Zoospores
(B) Propagation of microorganisms
(C) Technique of obtaining new plants by growing cells or tissues in culture medium
(D) Technique of obtaining small plants
77. To determine homozygosity or heterozygosity, a plant must be crossed with :
(A) Dominant parent
(B) Recessive parent
(C) Homozygous dominant
(D) Heterozygous dominant
78. Which is unrelated pair ?
(A) Gibberellins - *Gibberalla fujikuroi*
(B) Ethylene - Methionine
(C) Auxin - Indole-3-acetic acid
(D) Cytokinin - Violaxanthin
79. Which fungus was responsible for the great Irish famine ?
(A) Leaf spot of rice
(B) Rust of wheat
(C) Powdery mildew of peas
(D) Late blight of potato
80. After fertilization the seed coat of a seed develops from :
(A) Embryo sac
(B) Integuments
(C) Nucellus
(D) Chalaza

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