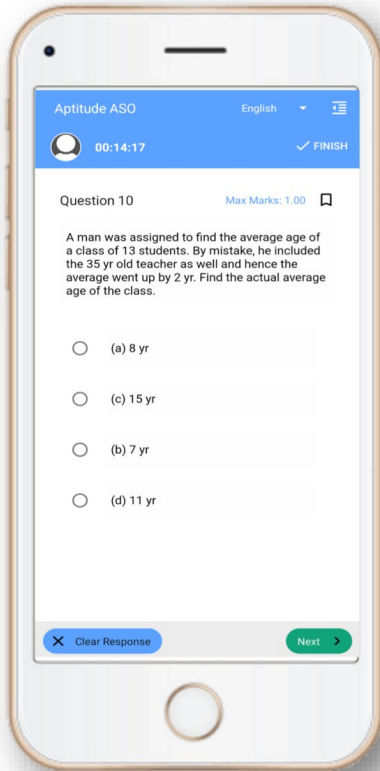


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## B-SECTION - III

## Science (CBZ)

## BOTANY

OSSTET- P-1/16

61. What will be the genotypic ratio obtained in  $F_1$  generation from a cross of  $AaBB \times aaBB$  ?
- (A) 1  $AaBB$  : 3  $aaBB$   
 (B) 3  $AaBB$  : 1  $aaBB$  (D)  
 (C) 2  $AaBB$  : 1  $aaBB$   
 (D) 1  $AaBB$  : 1  $aaBB$
62. Which one is the example of test cross ?
- (A)  $Tt \times TT$   
 (B)  $TT \times TT$  (D)  
 (C)  $tt \times tt$   
 (D)  $Tt \times tt$
63. Which class of fungi does cause rust disease of wheat ?
- (A) Phycomycetes  
 (B) Ascomycetes (C)  
 (C) Basidiomycetes  
 (D) Deuteromycetes
64. Which is not a preventive measure of plant disease control ?
- (A) Crop rotation  
 (B) Spraying of fungicide (B)  
 (C) Mixed cropping  
 (D) Spacing
65. Which one is different from other three in chromosome number ?
- (A) Zygote  
 (B) Embryo (C)  
 (C) Endosperm  
 (D) Seed coat
66. The plant part used as an inoculum for tissue culture is called :
- (A) Stem cell  
 (B) Callus (C)  
 (C) Explant  
 (D) Somatic embryo

67. Which is unrelated pair ?  
 (A) Yeast – Budding  
 (B) Bacteria – Fission  
 ✓ (C) Chrysanthemum – Seeds (C)  
 (D) Banana – Sucker
68. Process of development of fruits without fertilization is called :  
 (A) Parthenogenesis  
 ✓ (B) Abiogenesis (A)  
 (C) Spermatogenesis  
 (D) Organogenesis
69. Unicellular eukaryotic organisms are grouped under :  
 (A) Monera  
 ✓ (B) Protista (B)  
 (C) Fungi  
 (D) Animalia
70. Read the statements and mark the organism for which the statements are applicable :  
 (i) Fresh water, very few marine and autotrophic (C)  
 ✓ (ii) Thallus tubular and coenocytic  
 (iii) Asexual reproduction by multicellular zoospores  
 (iv) Sexual reproduction oogamous  
 (A) *Spirogyra*  
 (B) *Oedogonium*  
 (C) *Vaucheria*  
 (D) *Chara*
71. Which one is a living fossil ?  
 (A) *Riccia*  
 ✓ (B) *Selaginella* (C)  
 (C) *Ginkgo*  
 (D) *Pinus*
72. Where can ex situ conservation be done ?  
 (A) National park  
 ✓ (B) Botanical garden (B)  
 (C) Biosphere reserve  
 (D) Sanctuary
73. The first reaction of photosynthesis is :  
 (A) Photolysis of water  
 ✓ (B) NADPH formation (D)  
 (C) ATP formation  
 (D) Excitation of chlorophyll
74. In C-4 plants, the first stable product of CO<sub>2</sub> fixation in bundle sheath cells is :  
 (A) 3-Phosphoglyceric acid  
 ✓ (B) Phosphoenolpyruvate (A)  
 (C) Dihydroxyacetone phosphate  
 (D) Oxaloacetate

75. Which is the hormone secreted from the aleurone layer of maize seed during germination ?
- (A) Ethylene  
(B) Abscisic acid  C  
(C) Gibberellic acid  
(D) Cytokinin
76. Which is the hormone present in the maximal amount in apical region of shoot ?
- (A) Ethylene  
(B) Abscisic acid  D  
(C) Florigen  
(D) Auxin
77. Casparian thickenings are present in radial walls of :
- (A) Pith cells  D  
(B) Epidermis  
(C) Pericycle  
(D) Endodermis
78. Which is unrelated pair ?
- (A) Sclerenchyma – Nucleated  
(B) Parenchyma – Intercellular spaces  
(C) Collenchyma – Living  
(D) Epidermis – Guard cells
79. What is the identifying feature of roots ?
- (A) Vascular bundles scattered  
(B) Vascular bundles collateral  
(C) Vascular bundles siphonostelic   
(D) Vascular bundles radial
80. The primary acceptor of electron from the photosystem – II reaction centre, P680, is :
- (A) Plastoquinone  
(B) Pheophytin  B  
(C) Cytochrome  
(D) Ferredoxin