

THIRUVANNAMALAI DISTRICT QUESTION  
HALF-YEARLY EXAMINATION - 2017

BIO - BOTANY

PART - I

- 1) b) species
- 2) b) nucleic acid
- 3) d) plasmid
- 4) a) cell eating
- 5) d) coenanthium
- 6) a) drupe
- 7) b) Bateson & punnett
- 8) a) ion exchange

PART - II

9) oncogenic virus

The cancer causing viruses are called oncogenic virus.

Eq - SV 40

10) It is a amorphous thin cement like layer between two adjacent cells. Middle lamella is to first layer which is deposited at the time of cytokines. It is optically inactive (isotropic) made up of calcium and magnesium pectates. proteins also present.

11) Monocleous plants:

when the male flowers and female flowers are produced in the same plant it is called monocleous plants.  
eg. coconut, palm, maize, etc

12) It is plants which in marshy places like in Avilennia, the soil becomes saturated with water and Aeration is very poor. In these cases erect roots arise from the ordinary roots that lie buried the saline soil water, large breathing pores, pneumatophons.

13) Incomplete dominance is also called blending inheritance because both the characters of the parental plants are mixed to give an intermediate character which is different from that of parents but only the characters are mixed with each other and not the alleles.

14) water potential is the difference between free energy of water molecules in pure water solution.

### PART - III

- 15) Role of bacteria soil fertility page - 25
- 16) structure of prokaryotic cell page - 62
- 17) Differentiate phyllode/phylloclade page - 108 - 109
- 18) Hydroponics page - 182 - 183
- 19) chromosome theory of inheritance page - 156

### PART - IV

- 20) a) Mitosis cell division page no: 89 - 90  
b) potato osmoscope experiment page no: 169 - 170
- 21) a) fruit colour in Curcubita pepo page no - 162  
b) different types of aestivation with example page no: 126.

D. RAJAMANI MSc. MED

P.G. ASST IN BOTANY

A.C.S MAT. H.R. SEC. SCHOOL

ARNI - THIRUVANNAHALAI DISTRICT.