

HALF YEARLY EXAMINATION - 2018

11th BIO-BOTANY - KEY ANSWER

SECTION - I

- 1) a) Prophage
- 2) b) Bryophytes
- 3) c) Adventitious bud
- 4) a) Lilium
- 5) b) George Palade
- 6) c) companion cells
- 7) a) J.C. Bose
- 8) d) Copper

SECTION - II

9)

Homoiomericous	Heteromericous
Algal cells evenly distributed in the thallus.	A distinct layer of algae and fungi are present.

10) Epipetalous stamen

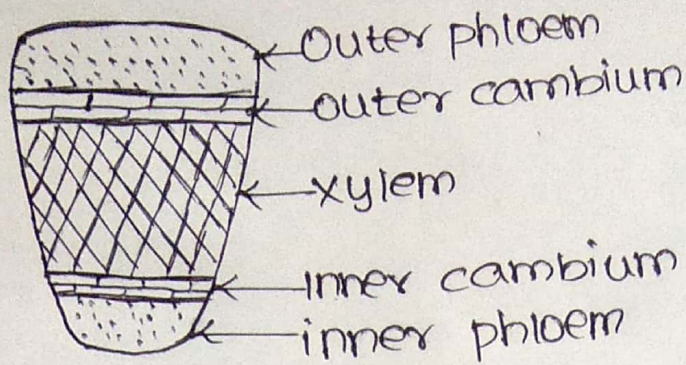
Stamens are attached to the petals.

11) Properties of water

- \* Adhesion and cohesion property.
- \* Universal solvent
- \* High melting and boiling point.



12) Bicolateral vascular bundle



13) Ascent of Sap

The water within the xylem along with dissolved minerals from roots is called sap and its upward transport is called ascent of sap.

14) Chlorosis

\* It is a deficiency disease.

\* Yellowing of leaves occurs when minerals like Nitrogen, potassium, Magnesium etc. are deficient.

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SECTION - III

15) Velamen roots

\* Roots hang freely in the air.

\* Root develop spongy tissue called velamen.

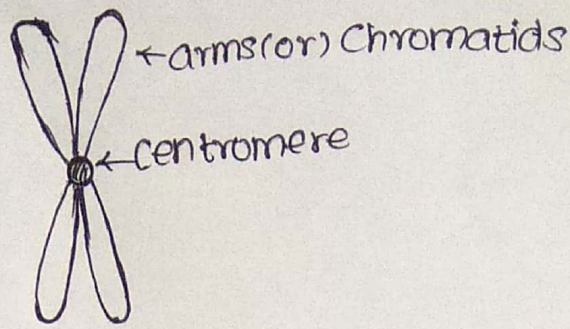
\* It help in absorption of moisture from air.

EX:-

Vanda, Dendrobium, Aeri des.



16) structure of chromosomes



17) Synapsis

\* Pairing of homologous chromosome is called synapsis.

\* Chromosome synapsis is made by the formation of synaptonemal complex.

18) Tricoplast

\* Piliferous layer consist of two types of epidermal layers.

i) Short cells ii) Long cells.

\* Short cells are called Tricoblast.

19) Respiratory Quotient

The ratio of volume of  $CO_2$  given out and volume of  $O_2$  taken in during respiration is called Respiratory Quotient.

Section - IV

20) a) Pg. 70 }  
b) Pg. 94 } Volume 1

21) a) Pg. 32 }  
b) Pg. 144 } Volume 2.

D. RAJAMANI MSc. MEd.  
ACB M.H.S.S. ARNI  
T.V. MALAI DIST.