

S.Y.BSc SEM III – Botany Paper – I (Mumbai University)

1. Which statement is wrong for Asteraceae

- (a) **5-lobed stamens** (b) Syngenesious stamens (c) Basal ovule (d) Ligulate ray florets

2. Most brown algae contain the pigment, which is responsible for the distinctive greenish-brown colour that gives them their name

- (a) **Fucoxanthin** (b) Xanthophylls (c) r-Phycoerythrin (d) c-Phycocyanin

3. In *Funaria*, the peristomial teeth are

- (a) Xeric
(b) Hydric
(c) Mesic
(d) **Hygroscopic**

4. Bryophytes are amphibians of the plant kingdom because

- (a) **They require a layer of water for carrying out sexual reproduction**
(b) They occur in damp places
(c) They are mostly aquatic
(d) All the above

5. In *Funaria*, the sporophytic phase is well-developed, comprising

- (a) Foot and capsule
(b) Only capsule
(c) Spore sac
(d) **Seta, foot and capsule**

6. _____ is a graphic representation of flower structure. It shows the number of floral organs, their arrangement and fusion.

- (a) Floral formula (b) **Floral diagram** (c) Plant diagram (d) Plant description

7. Anchorage organs of *Funaria* are

- a) Unicellular rhizoids
b) Adventitious roots
c) **Multicellular rhizoids**
d) True roots

8. A common hornwort is

- (a) **Anthoceros**
(b) *Funaria*
(c) *Marchantia*
(d) *Riccia*

9. Plants can also be collected in _____ which is a tin box with lid

- a) **vasculum** (b) tray (c) cylinder (d) crate

10. The mobile phase in TLC is _____

- a) **Liquid** (b) Solid (c) Gas (d) Inert