MISSION M.B.B.S

Date: 22/08/2022

Subject: BOTANY

Topic : PLANT KINGDOM L2 Class: Standard XI

Instructions:

A

1. Linnaeus placed bacteria, fungi along with plants in Kingdom Plantae. The character that unified these diverse groups is the

   A. presence of cell membrane

   B. presence of cell wall

   C. similar mode of nutrition

   D. similar mode of reproduction by spores

2. The stored food material of *Laminaria* is

   A. floridean starch

   B. glycogen

   C. laminarin

   D. both b and c

3. Which of the following belong to the same group?

   A. *Ectocarpus, Chlorella, Gracilaria*

   B. *Porphyra, Gelidium, Chara*

   C. *Ectocarpus, Dictyota, Fucus*

   D. *Laminaria, Fucus, Volvox*

4. Which of the following undergoes meiosis in algae?

   A. Zoospore

   B. Zygote

   C. Aplanospore

   D. Algae never undergo meiosis as they are haploid

5. Commercially used carrageenan comes from algae

   A. that store food as mannitol

   B. that have phycoerythrin pigment

   C. that store starch in pyrenoids

   D. that have fucoxanthin pigment

6. Which of the following compounds are stored in pyrenoids?

   A. Glucose

   B. Oil

   C. Starch

   D. Fats

7. Pick the option which includes all the correct statements from the following.

A. Chlorophyceae: Chlorophyll a and chlorophyll c pigments, starch-stored as food, asexual reproduction by zoospores.

B. Phaeophyceae: Fucoxanthin pigment, mannitol-stored as food, pear-shaped zoospores with 2, unequal sized apical flagella.

C. Rhodophyceae: Phycoerythrin pigment, floridean starch, reproduction by non-motile spore.

A. A, B and C

B. Only A

C. Only B

D. Only C

8. Which of the following algae exhibit all three forms of syngamy - isogamy, anisogamy and oogamy?

A. *Spirogyra*

B. *Fucus*

C. *Volvox*

D. *Chlamydomonas*

9. An alga has

A. a thallus body of only green colour

B. moss like body with simple shoots

C. plant body with distinct shoots

D. none of these

10. A cup-shaped chloroplast is seen in

A. *Spirogyra*

B. *Chlamydomonas*

C. *Zygnema*

D. *Ulothrix*