

MISSION M.B.B.S

Date: 19/08/2022

Subject: BOTANY

Topic : PLANT KINGDOM L1

Class: Standard XI

Instructions:

A

1. Choose the correct statements:

- I. All organisms belonging to Kingdom plantae are eukaryotic
- II. Mosses are grouped under Pteridophytes
- III. All organisms belonging to Kingdom Plantae have well differentiated shoots, roots and leaves.

- A.** Only I
- B.** Only II
- C.** Only II and III
- D.** Only I and III

2. The pigment that imparts green colour to plants is known as

- A.** chloroplast
- B.** chloroglobin
- C.** hemoglobin
- D.** chlorophyll

MISSION M.B.B.S

3. Plants utilise X and produce Y. Identify X and Y.
- A.** X - oxygen, Y - glucose
 - B.** X - sunlight, Y - glucose
 - C.** X - chlorophyll, Y - water
 - D.** X - sunlight, Y - water
4. Which of the following are characteristic features of organisms belonging to the plant kingdom
- I. Lack a well-defined nuclei
 - II. Possess cell walls composed of chitin
 - III. Can manufacture their own food
 - IV. Use oxygen for energy production
- A.** Only I and II
 - B.** Only II and III
 - C.** Only III and IV
 - D.** Only I and IV
5. Choose the option with correct statements about the reason for further classification of Kingdom Plantae:
- I. Convenient to place new organisms
 - II. Categorization allows ease in categorizing newly discovered organisms
 - III. Sort the huge diversity of organisms
 - IV. A dump of organisms looks ugly and classification is presentable
- A.** Only I
 - B.** Only II and III
 - C.** Only I and IV
 - D.** Only I, II and III

MISSION M.B.B.S

6. 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

7. The stored food material of *Laminaria* is
 - A. floridean starch
 - B. glycogen
 - C. laminarin
 - D. both b and c

8. 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*

9. Which of the following undergoes meiosis in algae?
 - A. Zoospore
 - B. Zygote
 - C. Aplanospore
 - D. Algae never undergo meiosis as they are haploid

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10. 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