

## MISSION M.B.B.S

Date: 19/08/2022

Subject: BOTANY

Topic : PLANT KINGDOM L1

Class: Standard XI

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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

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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

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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