Audesirk, Biology: Life on Earth 7e Chapter 21 The Diversity of Plants

1) Which evidence supports the concept of green algae as ancestral to the plant kingdom? A) DNA studies B) similar kinds of chlorophyll in both groups C) similar kinds of cell wall chemicals in both groups D) similar kinds of reserve food in both groups E) All of these are correct. Answer: E Diff: 1 Type: MC Page Ref: Sec. 21.1 Skill: Factual
 2) Green algae are assumed to be ancestors of plants because A) the fossil ancestors have been discovered. B) green algae make chitin and laminarin. C) green algae make cellulose and starch. D) green algae are almost exclusively marine. E) lignin is known to occur in some green algae. Answer: C Diff: 1 Type: MC Page Ref: Sec. 21.1 Skill: Factual
3) Land plants are believed to have evolved from A) green algae B) fungi C) lichens D) bacteria E) Euglena Answer: A Diff: 1 Type: MC Page Ref: Sec. 21.1 Skill: Factual
4) Which of the following DOES NOT support the theory that terrestrial plants have an algal ancestor? A) The same type of chlorophyll is present in both. B) Both have starch energy storage molecules. C) Both have the same accessory pigments. D) Vascular tissues are found in both groups. E) Both are autotrophic. Answer: D Diff: 1 Type: MC Page Ref: Sec. 21.1 Skill: Factual
5) Which of the following is NOT good evidence that land plants arose from green algae?A) Both photosynthesize.B) Both use the same kind of chlorophyll.C) Green algae live in fresh water environments.