

Biology 260 Exam One Review Sheet

The material covered **ONLY** in chapters 30, 31 and 39 will be testable on your first exam.

The exam will consist of fifty multiple choice questions.

You should review the following Figures, Tables, Concepts and Vocabulary thoroughly.

Chapter 30.

Figures that you should know

30.1

30.6

30.7

30.8

30.10e

Tables

30.1

Concepts

Alternation of generations

Challenges faced by the plants in inhabiting the terrestrial environment

Adaptations that modern day plants have made to conquer land

The use of a cladogram to represent the evolutionary history of land plants

The use of the fossil record and molecular sequences to reconstruct the evolutionary life on earth

Vocabulary

Monophyletic group

Clade

Charophyceans

Eukaryotic

Liverworts

Hornworts

Bryophytes

Pteridophytes

Cycads

Gingkos

Conifers

Gnetophytes

Angiosperms

Sporic

Mitosis

Meiosis

Spores

Eggs

Sperm
Gametophyte
Sporophyte
Sporangium
Gametangia
Fertilization
Embryo
Rhizoids
Phragmoplast
Plasmodesmata
Euphylls
Lycophylls
Ovule
Pollen
Integuments
Microspores
Megaspores
Pollination
Seed coat
Double fertilization
Endosperm
Homosporous
Heterosporous

Chapter 31

Figures that you should know

31.1
31.7
31.9
31.14
31.15
31.21

Tables

31.2

Concepts

Important concepts
Flower development
Double fertilization
Development of seeds
Types of fruits

Vocabulary

Wood
Vascular cambium

Progymnosperms
Eustele
Tracheids
Pits
Torus
Receptacle
Peduncle
Perianth
Complete flowers
Incomplete flowers
Perfect flowers
Imperfect flowers
Pistil
Carpel
Stigma
Style
Anthers
Filaments
Eudicots
Monocots
Fruits
Simple fruits
Aggregate fruits
Multiple fruits
Accessory fruits
Berry
Legume
Drupe
Achene
Phenols
Terpenes
Alkaloids
Coevolution
Pollination syndromes
Domestication
DNA barcodes

Chapter 39

Figures that you should know

39.1
39.2
39.3
39.4
39.13
39.14

39.16
39.18
39.19
39.20

Tables

None

Concepts

Overview of reproduction in flowering plants
Pollen compatibility
Seed development

Vocabulary

Cotyledons
Epicotyl
Hypocotyle
Radicule
Coleoptile
Coleorhizae
Suspensor
Funiculus
Micropyle
Polar cells
Synergids
Endosperm
Self-incompatibility
Gametophytic self-incompatibility
Sporophytic self-incompatibility
Generative cell
Tube cell
Pollen tube

Omit

Pages 829-833, 842-844.