

2ND SEMESTER FINAL EXAM REVIEW GUIDE

This sheet may be used as good review of terms and concepts, but it is not "all inclusive." Study class notes, textbook, textbook CD, Unit Packets, Unit Packet Objectives, labs and **this guide**.

UNIT 7B – HUMAN EVOLUTION (9 Questions) Ch. 17 p. 368-378 and Ch. 13 p. 258-259

(Recommendation: Read all of these pages!)

Evolution of primates

Evolution of humans and human ancestors

Hominids: *Australopithecus*, *Homo habilis*, *Homo erectus*, *Homo sapiens*

Characteristics of primates

Bipedalism, opposable thumb, evolution of brain, hair, jaws, face, chin, parental care

Multiregional hypothesis vs. "Out of Africa" hypothesis

Hardy-Weinberg law – problems and definition (3 questions)

UNIT 8 – CLASSIFICATION & DIVERSITY (20 Questions) Ch. 14, 15, 16, 17

3 Domain System – list & describe 3 domains

Classification system – 7 taxon system - KPCOFGS

How are organisms classified?

Kingdoms – characteristics of

Binomial nomenclature

Phylogenetic tree

Invertebrate body patterns – types of symmetry

Invertebrates – characteristics of **each phyla**

Invertebrates: body segments, appendages, jointed or non, # of body openings, # of legs

Vertebrates – characteristics of **each class**

Endothermic vs. ectothermic

Mammals – characteristics of

Vertebrate hearts – chambers

single vs. double loop circulation and lungs vs. gills

oviparous, viviparous, ovoviviparous

UNIT 9 – PLANTS (33 questions) Ch. 16, 28, 29

Origin of plants

Characteristics of plant kingdom

Gymnosperms

Angiosperms

Monocot vs. Dicot

Growing seasons of plants – annuals, perennials, biennials

Flower - parts and functions

Double fertilization of flowers – steps of

Fruits – examples of, characteristics of, plant part

Seeds

Pollination

Leaf – parts of

Greenhouse Effect / global warming

Vascular system-xylem and phloem

Growth of a plant – stems and roots

Root – parts of, how growth occurs

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Table of Contents 2nd Semester Final Review Guide

1. Understanding the eBook 2nd Semester Final Review Guide
 - The Rise of Digital Reading 2nd Semester Final Review Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Final Review Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2nd Semester Final Review Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Final Review Guide
 - Personalized Recommendations
 - 2nd Semester Final Review Guide User Reviews and Ratings
 - 2nd Semester Final Review Guide and Bestseller Lists
5. Accessing 2nd Semester Final Review Guide Free and Paid eBooks
 - 2nd Semester Final Review Guide Public Domain eBooks
 - 2nd Semester Final Review Guide eBook Subscription Services
 - 2nd Semester Final Review Guide Budget-Friendly Options

6. Navigating 2nd Semester Final Review Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - 2nd Semester Final Review Guide Compatibility with Devices
 - 2nd Semester Final Review Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2nd Semester Final Review Guide
 - Highlighting and Note-Taking 2nd Semester Final Review Guide
 - Interactive Elements 2nd Semester Final Review Guide
8. Staying Engaged with 2nd Semester Final Review Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2nd Semester Final Review Guide
9. Balancing eBooks and Physical Books 2nd Semester Final Review Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2nd Semester Final Review Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2nd Semester Final Review Guide
 - Setting Reading Goals 2nd Semester Final Review Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2nd Semester Final Review Guide
 - Fact-Checking eBook Content of 2nd Semester Final Review Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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