

# HESI A2 EXAM OUTLINE



## Mathematics



55 Questions

Basic Addition and Subtraction  
Basic Multiplication (Whole Numbers)  
Basic Division (Whole Numbers)  
Decimals  
Fractions  
Multiplication of Fractions  
Division of Fractions

Changing Fractions to Decimals  
Changing Decimals to Fractions  
Ratios and Proportions  
Percentages  
12-hour Clock versus Military Time  
Algebra  
Helpful Information to Memorize



## Reading Comprehension



50 Questions

Identifying the Main Idea  
Identifying Supporting Details  
Finding the Meaning of Words  
Identifying Purpose and Tone

Fact versus Opinion  
Making Logical Inferences  
Summarizing



## Vocabulary



50 Questions

Etymology (Word Origins)  
Verbal Ability  
Nursing-specific Word Knowledge  
Health-care-specific Word Knowledge



## Grammar



50 Questions

Eight Parts of Speech  
Nine Important Terms to Understand  
Ten Common Grammatical Mistakes  
Five Suggestions for Success  
Fifteen Troublesome Word Pairs



## Biology



30 Questions

Basics of Biology  
Water  
Molecules  
Metabolism  
Cells

Cellular Respiration  
Photosynthesis  
Cellular Reproduction  
Genetics  
DNA



## Chemistry



30 Questions

Scientific Notation  
The Metric System  
Temperature Scales  
Atomic Structure and the Periodic Table  
Chemical Equations  
Reaction Rates  
Equilibrium  
Reversibility

Solutions and Concentrations  
Chemical Reactions  
Stoichiometry  
Oxidation and Reduction  
Acids and Bases  
Nuclear Chemistry  
Biochemistry



## Anatomy and Physiology



30 Questions

General Terminology  
Histology  
Mitosis and Meiosis  
Skin  
Skeletal System  
Muscular System  
Nervous System

Endocrine System  
Circulatory System  
Respiratory System  
Digestive System  
Urinary System  
Reproductive System



## Physics



25 Questions

Nature of Motion  
Acceleration  
Projectile Motion  
Newton's Laws of Motion  
Friction  
Rotation  
Uniform Circular Motion  
Kinetic and Potential Energy

Linear Momentum and Impulse  
Universal Gravitation  
Waves and Sound  
Light  
Optics  
Atomic Structure  
The Nature of Electricity  
Magnetism and Electricity

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## **Table of Contents Hesi Entrance Exam Math Study Guides**

1. Understanding the eBook Hesi Entrance Exam Math Study Guides
  - The Rise of Digital Reading Hesi Entrance Exam Math Study Guides
  - Advantages of eBooks Over Traditional Books
2. Identifying Hesi Entrance Exam Math Study Guides
  - 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 Hesi Entrance Exam Math Study Guides
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hesi Entrance Exam Math Study Guides
  - Personalized Recommendations
  - Hesi Entrance Exam Math Study Guides User Reviews and Ratings
  - Hesi Entrance Exam Math Study Guides and Bestseller Lists
5. Accessing Hesi Entrance Exam Math Study Guides Free and Paid eBooks
  - Hesi Entrance Exam Math Study Guides Public Domain eBooks

- Hesi Entrance Exam Math Study Guides eBook Subscription Services
- Hesi Entrance Exam Math Study Guides Budget-Friendly Options
- 6. Navigating Hesi Entrance Exam Math Study Guides eBook Formats
  - ePub, PDF, MOBI, and More
  - Hesi Entrance Exam Math Study Guides Compatibility with Devices
  - Hesi Entrance Exam Math Study Guides Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hesi Entrance Exam Math Study Guides
  - Highlighting and Note-Taking Hesi Entrance Exam Math Study Guides
  - Interactive Elements Hesi Entrance Exam Math Study Guides
- 8. Staying Engaged with Hesi Entrance Exam Math Study Guides
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hesi Entrance Exam Math Study Guides
- 9. Balancing eBooks and Physical Books Hesi Entrance Exam Math Study Guides
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hesi Entrance Exam Math Study Guides
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hesi Entrance Exam Math Study Guides
  - Setting Reading Goals Hesi Entrance Exam Math Study Guides
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hesi Entrance Exam Math Study Guides
  - Fact-Checking eBook Content of Hesi Entrance Exam Math Study Guides
  - 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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