

Interactive Study Guide  
for  
*The Exchange of Truth*

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Greetings,

The following study guide is “interactive” in that most answers are found by referring to the italicized page number printed in parentheses next to the question. If you are not sure about your answer, just flip to the corresponding page in the book to find it. Most questions are fill-in-the-blank. Print the study guide out and fill it in, or put your answers on a separate paper. You have permission to make as many copies of it as you need.

God bless,

Dr. Shormann

## Chapter 1/Introduction Questions

(xi) Romans 1:18-19 “For the wrath of God is revealed from heaven against all ungodliness and unrighteousness of men, who \_\_\_\_\_ the truth in unrighteousness, because what may be known of God is manifest in them, for God has shown it to them”

(xii) Truths of the senses deal with things we are convinced of because we have seen them, or they have been revealed to us by our \_\_\_\_\_ (Cardinals are red)

(xii) Truths of \_\_\_\_\_ deal with something called logic, and are things we accept as true without proof (2 points define a line)

(xii) Truths of \_\_\_\_\_ are a result of what we put our faith in. This includes all historical truths.

(xii) The purpose of *Exchange of Truth* is to confidently use the truth of God’s word and cautiously apply the truths of our senses, understanding, and beliefs to see where God’s truth was exchanged for a lie or \_\_\_\_\_ by evolutionary ideas.

(xiii) Our \_\_\_\_\_ is to be used to love God and love our neighbors, otherwise it is useless.

(3) Philosophy: Love of wisdom. Phile means \_\_\_\_\_, Sophia means wisdom.

(3) Wisdom: \_\_\_\_\_, good judgement.

(4) Reasoning: how we \_\_\_\_\_.

(4) Think: how we form things (\_\_\_\_\_, opinions, procedures, etc.) in our mind.

(4) Deductive Reasoning: \_\_\_\_\_ a rule, standard, or truth so that we can know how to solve a problem, know what action to take in a situation, or discover a new rule, standard or truth.

**(4) Practice with Syllogisms! Determine if 12-17 are valid or invalid arguments.**  
**Answers are on page 5.**

12)

- a. All stealers go to prison.
- b. John went to prison.
- c. John is a stealer.

13)

- a. The average redbfish has 1 spot on its tail.
- b. That fish has one spot on its tail.
- c. That fish is an average redbfish.

14)

- a. All living things evolved from unorganized chemicals
- b. Snails are living things.
- c. Snails evolved from unorganized chemicals.

15)

- a. All oaks are trees.
- b. Some trees are oaks.
- c. Some trees are not oaks.

16)

- a. Every tree has roots.
- b. Every oak has roots.
- c. Every oak is a tree.

17)

- a. No virtuous man is a slanderer.
- b. Some slanderers are learned men.
- c. Some learned men are not virtuous

**(6)** You can still have a valid argument, even if the major premise is \_\_\_\_\_.

**(6)** If a major premise is assumed to be true, but is actually \_\_\_\_\_, a multitude of false conclusions can be made. Just like a multitude of truths can be found from a true major premise.

**(7)** The Greeks believed the axioms or postulates and the theorems deduced from them were true because human \_\_\_\_\_ alone proved them to be true.

**(7)** Proverbs 20:10 is a clear example of the \_\_\_\_\_ guiding the natural.

**(8)** To say science and \_\_\_\_\_ don't mix is to exchange Truth for a lie.

**(8)** Sir Isaac Newton had no problem mixing science and \_\_\_\_\_.

(8) Analogies are statements that contain some \_\_\_\_\_ (general) truth which can be applied to discover the truth in a similar (analogous) statement.

(9) God has given Scripture to help us answer the question \_\_\_\_\_?

(9) In *The Advancement of Learning, Book 1*, Francis Bacon states as a major premise for learning: “A man cannot be too well studied in the book of God’s \_\_\_\_\_ or in the book of God’s works”.

(9) Bacon’s premise is analogous to Jesus’ words in Matthew 22:29 which state: “You are in error because you do not know the Scriptures (God’s word) or the power of God (God’s \_\_\_\_\_)”.

(10) When you read Bacon’s works, it is obvious that he was, like \_\_\_\_\_, a man after God’s own heart.

(11) Darwin’s major premise was that there was no \_\_\_\_\_ between the study of science and the study of religion, in particular, Christianity.

(11) Using \_\_\_\_\_ as the “unifying theme” in biology textbooks has been standard since the early 1960’s.

(12) Many facts contained within this book are currently \_\_\_\_\_ to teach in most public schools, but they are facts everyone has a right to know.

(12) If you are currently in high school now, the major premises that shape your worldview \_\_\_\_\_ will have a profound effect on the rest of your life.

(12) Of students who enter college proclaiming they are born-again believers, \_\_\_\_\_ percent say they are no longer so upon graduation.

(12) The major premises that you are expected to believe at most colleges are either \_\_\_\_\_ (deny existence of God) or agnostic (cannot know if there is a God) in nature.

(12) Scripture memory is one of the most effective methods for avoiding confused thinking in your life and following major premises that seem to result in logical conclusions, but in reality are \_\_\_\_\_.

Memorization: Memorize Romans 1:18-25

Answers to 12-17:

**Invalid**, John may not be in prison for stealing.

**Invalid**, things with one spot on their tail don't have to be redfish.

**Valid**, but the major premise is false.

**Valid**, from *Letters to a German Princess*, p. 456, L. Euler.

**Invalid**, even though we know oak trees have roots, it does not follow from this syllogism. It would be valid if the minor premise and conclusion were reversed. Adapted from *Letters to a German Princess*, p. 457, L. Euler.

**Valid**, from *Letters to a German Princess*, p. 465, L. Euler.

## Chapter 2 Questions

### *Review*

- (9) Matthew 22:29 You are in error, not knowing Scriptures nor the \_\_\_\_\_ of God.
- (9) Francis Bacon said “A man cannot be too well \_\_\_\_\_ in the book of God’s word or in the book of God’s works”
- (4) Deductive reasoning is about \_\_\_\_\_ rules.
- (xii) Leonhard Euler (1707-1783) classified truth into three categories, which included truths of the \_\_\_\_\_, understanding, and belief.
- (6) If a \_\_\_\_\_ is assumed to be true, but is actually false, a multitude of false conclusions can blossom from it.

### **Chapter 2**

- (13) Inductive reasoning is about \_\_\_\_\_ rules, while deductive reasoning is about applying rules.
- (14) Science can be defined as \_\_\_\_\_ gained through observing the physical world.
- (14) Francis \_\_\_\_\_ is considered the founder of the scientific method.
- (14) The scientific method is a \_\_\_\_\_ (step-by step) way to think inductively (find rules).
- (14) The 5 steps in the scientific method are: question, hypothesis, \_\_\_\_\_, results, and discussion.
- (14) A Hypothesis is an \_\_\_\_\_ guess, and is where deductive and inductive reasoning merge together.
- (14) The scientific method provides a framework for thinking inductively, just like \_\_\_\_\_ provide a framework for thinking deductively.
- (15) It is crucial for us to be well versed in the book of God’s word and God’s works, so that our hypothesis is based on a firm foundation and not a shaky one based solely on the words of \_\_\_\_\_.
- (16) Since man is imperfect, we must be extremely careful when finding \_\_\_\_\_ causes, or the rules we come up could develop into hollow and deceptive philosophies (Col 2:8). God is the perfect First cause, and it is only by His grace that we can know anything about the second causes.
- (16) Good scientists are \_\_\_\_\_, and reflection on God’s word will

lead to observation of His works.

(17) Without Goodyear's invention of stabilizing \_\_\_\_\_, the spreading of the Gospel message would be much more difficult.

(18) Matthew Maury believed that since God said there were \_\_\_\_\_ in the sea, he should be able to find them.

(18) Wilson Bentley showed the world that \_\_\_\_\_ are yet another example of God's attribute of "unity amidst diversity". All six-sided, all made of water, yet no two alike.

(19) Christian scientists like the ones we have studied differed from Darwin in their major premises, and they were confident that their work was God's will for their lives, laboring in \_\_\_\_\_ to Him and to their fellow man.

(19) To think critically means to \_\_\_\_\_.

(19) Since \_\_\_\_\_ thinking also starts with questioning, it is a form of critical thinking.

(21) Current teachings of critical thinking involve \_\_\_\_\_ reasoning alone as the source of knowledge, which is the method Francis Bacon condemned.

(21) \_\_\_\_\_ rebuked those who did not know God's word or His works (Matthew 22:29), as well as those who did not know God's word but did know God's works (Matthew 16:2).

(22) There should be a \_\_\_\_\_ to our learning, not too much relying on man's mind, and not being excessively critical (like Socrates) or not critical enough.

(22) Real critical thinking involves having a firm foundation based on the study of God's word and God's works, God's works including man and the study of man, or \_\_\_\_\_.

(22) They could persecute you for questioning the religious leaders of your day if they have exchanged the \_\_\_\_\_ of God for a lie.

(23) Be confident that studying His word and His works is the right way to learn, and \_\_\_\_\_ that He has a special plan for your life which you won't reveal by reasoning alone.

## Chapter 3 Questions

### Review

(xi) Romans 1:18-25 says “For the wrath of God is revealed from heaven against all the unrighteousness and ungodliness of men, who \_\_\_\_\_ the truth in unrighteousness.....and \_\_\_\_\_ the truth of God for the lie, worshipping and serving the creature rather than the Creator”.

(13,19) Deductive reasoning is about \_\_\_\_\_ rules, inductive reasoning is about \_\_\_\_\_ rules, and critical thinking is about \_\_\_\_\_.

(15) In the scientific method, the \_\_\_\_\_ is affected by your major premises.

(xii) The three classes of truth are truths of the \_\_\_\_\_, understanding, and belief.

(8,11) Some of the false major premises (exchanges of truth) that we have discussed are 1) Science and \_\_\_\_\_ don't mix 2) \_\_\_\_\_ is the unifying concept in biology 3) Critical thinking involves human reasoning alone, 4) memorization is counterproductive.

### Chapter 3

(27) Biology means the study of \_\_\_\_\_.

(28) One side of the DNA ladder, called the DNA strand, contains instructions for the manufacture of enzymes and other \_\_\_\_\_.

(29) A \_\_\_\_\_ is a set of three nucleotide bases on a strand of DNA that act as “code words”

(29) At the moment of your conception, an egg cell, containing \_\_\_ of your mom's chromosomes, and a sperm cell containing \_\_\_ of your dad's chromosomes united.

(30) \_\_\_\_\_ protein is synthesized in accordance with instructions in DNA

(30) \_\_\_\_\_ are located on chromosomes, and contain the instructions for making you, and since half of these instructions came from mom and half from dad, that is why you look a little bit like mom and a little bit like dad.

(30) The two steps involved in protein synthesis are transcription and \_\_\_\_\_.

(30) During transcription, messenger \_\_\_\_\_ is formed.

(30) During translation, \_\_\_\_\_ RNA, messenger RNA, and ribosomes act together to form a new protein molecule.

(30) The \_\_\_\_\_ of a human contains about 30,000 genes made up of 3.2 billion base pairs.

(33) Secular biology textbooks state that \_\_\_\_\_ is the foundation for the unity and diversity of life. This is an exchange of truth, because DNA is a second cause. God, who is the First cause, is the true foundation for the unity and diversity of life.

(33) DNA does not do anything without the \_\_\_\_\_ of other chemicals.

(33) Genetics is the study of \_\_\_\_\_.

(33) \_\_\_\_\_ are just multiple forms of the same gene.

(34) A \_\_\_\_\_ is a single gene pair, and a phenotype is the physical trait expressed by that gene pair.

(34) Gregor \_\_\_\_\_ (1822-1884) was a contemporary of Charles Darwin, and is considered the “father of genetics”

(35) Use the Punnett square to cross a purebred yellow (YY) pea plant with a purebred green (yy) pea plant.

**(36)** Use the results above to perform a dihybrid cross in the Punnett square below

**(36)** Mendel's Theory of Segregation states that genes from homologous pairs of chromosomes are \_\_\_\_\_ during the formation of gametes, so they end up in different gametes.

**(37)** Inside the nuclei of your \_\_\_\_\_ are chromosomes, of which you have 23 homologous pairs. Each chromosome is a continuous strand of \_\_\_\_\_, which can be divided into distinct sections called \_\_\_\_\_. A gene's DNA contains a coded message for the manufacture of a specific protein.

**(37)** The amount of information contained in the DNA in just one of your cells is equivalent to \_\_\_\_\_ books of 500 pages each.

**(37)** Dr A.E. \_\_\_\_\_ (1915-1995) was a Bible-believing Christian who spoke out against evolutionary theory.

**(38)** The parable of the sower (Luke 8:4-15) helps us understand that just like human languages are expressions of our thoughts, the 64 code words contained in genes are expressions of \_\_\_\_\_ thoughts!

**(38)** The unity amidst diversity that we see in Creation is an attribute of God, and the molecular constancy (every living thing has DNA) and variation (everything except clones have different DNA) are because of Him, not in spite of Him.

## Chapter 4 Questions

### Review

(9) According to Francis Bacon, our study of God's word and God's works should be applied to \_\_\_\_\_ and not to swelling. Bacon's words are a paraphrase of 1 Corinthians 13:2. (*And though I understand all mysteries and all knowledge...but have not love, I am nothing.*)

(Ch. 3) Arrange these words in order from smallest to largest: amino acid, atom, cell, chromosome, gene, nucleotide base, organ, system, tissue.

(37) The amount of information contained in the DNA in just one of your cells is equivalent to 1000 books of \_\_\_\_\_ pages each.

(35) Use the Punnett square below to determine the phenotype and genotype ratios of the offspring of a cross between a homozygous green (yy) pea plant with a hybrid yellow (Yy) pea plant.

(36) Mathematical \_\_\_\_\_ is critical to our understanding of how traits can be passed from parents to offspring in sexually reproducing animals.

### Chapter 4

(39) According to secular biology textbooks, evolution simply means genetic \_\_\_\_\_ in a line of descent.

(40) \_\_\_\_\_ cause genetic change.

(40) There are known causes and \_\_\_\_\_ causes for mutations.

(40) A mutation is a permanent alteration in a gene's base \_\_\_\_\_.

(40) Mutations are the original source of genetic \_\_\_\_\_ in populations.

(40) \_\_\_\_\_ mutations cause 1 amino acid to change in a sequence, which changes 1 code word.

(40) Insertion and \_\_\_\_\_ mutations change all or part of a sequence

- (40) Mutations of unknown cause are called \_\_\_\_\_
- (40) Each gene has a characteristic mutation \_\_\_\_\_ which is the probability that it will mutate spontaneously
- (41) \_\_\_\_\_, natural and synthetic chemicals can alter DNA in various ways.
- (41) \_\_\_\_\_ are segments of DNA that can move to different locations in a genome, and may cause changes in phenotype by inactivating the gene into which it inserts.
- (42) Most mutations are \_\_\_\_\_ to the organism, a truth suppressed by most secular biology textbooks.
- (42) Evolution only occurs by \_\_\_\_\_.
- (43) There are no known causes for \_\_\_\_\_ mutations.
- (43) The whole idea of evolution of new species rests on the probability that new genes will be formed \_\_\_\_\_.
- (43) Mathematical probability is the ratio of the number of desired outcomes to the number of \_\_\_\_\_ outcomes
- (44) When flipping a coin, the probability of it landing on heads or tails is 1 in 2 or \_\_\_\_\_%.
- (44) Mathematical probability helps us \_\_\_\_\_ the outcome of an event, but it cannot tell us with absolute certainty what will happen.
- (44) \_\_\_\_\_ 16:33 is evidence that God wants us to use mathematical probability to reveal His will to us. Probability doesn't cause anything to happen, but God can!
- (44) Probability doesn't \_\_\_\_\_ anything, but God can, and if he wants 1 in every 2.5 billion E.Coli cells to mutate, then He can make that happen.
- (45) If we really did evolve from a single-celled organism like a bacteria, with around 4,000, genes or so, then we had to get \_\_\_\_\_ new genes from somewhere, all of which benefited the previous species, yet none of which do we know how it got there.
- (46) For a strand of DNA only 10 base pairs long, the probability that it would spontaneously form in a specified order is 1 in  $4^{10}$ , or about 1 in a \_\_\_\_\_.
- (46) The probability that the average gene on human chromosome \_\_\_\_ (19,000 base pairs long) would form spontaneously is 1 in  $4^{19,000}$ .
- (46) These probabilities include the help of \_\_\_\_\_ forming the DNA strand.
- (46) The probability of spontaneously forming the 239 proteins required for the simplest possible life form is 1 in 10 to the \_\_\_\_\_ power!

(47) The \_\_\_\_\_ cause owns the real “hands” that built Creation.

(47) Charles Darwin did not and could not know about chromosomes, genes, \_\_\_\_\_ or nucleotides.

(48) During Francis Bacon’s day, \_\_\_\_\_ was considered infallible in philosophy in much the same way that Darwin is considered infallible by many today.

(48) Studying Darwin alone is like studying a large room with just a \_\_\_\_\_.

(48) If you believe God, his plan for you is eternal life. If you don’t believe God, he still has a plan for you, and it involves giving you up to the lusts of your \_\_\_\_\_.

(49) Phillip Johnson summarizes our study of mutations and probability by saying “\_\_\_\_\_ -creating evolution is not empirical science at all because it has never been observed either in the wild or in the laboratory”.

## Chapter 5 Questions

### Review

(xi) Romans 1:18 begins “For the wrath of God is revealed from heaven against all the unrighteousness and ungodliness of men, who \_\_\_\_\_ the truth in unrighteousness, because what may be known of God is \_\_\_\_\_ in them, for God has shown it to them.”

(39) According to biology textbooks, evolution simply means \_\_\_\_\_ change in a line of descent.

(40) \_\_\_\_\_ in genes are the only way that genes can change.

(43) The whole idea of evolution of new species rests on the probability that new genes will be formed \_\_\_\_\_.

(46) The probability of the simplest organism forming spontaneously is 1 in 10\_\_\_\_\_.

(49) \_\_\_\_\_-creating evolution has never been observed either in the wild or in the laboratory.

### Chapter 5

(53) Loss of function mutations usually cause \_\_\_\_\_ phenotypes.

(54) Gain in function mutations usually cause \_\_\_\_\_ phenotypes

(54) \_\_\_\_\_ are multiple forms of the same gene.

(54) The \_\_\_\_\_ within the gene pool of a population is the result of the effects of what is commonly referred to as microevolution.

(54) Microevolution is defined as the change in allele \_\_\_\_\_ in a population.

(54) The four main causes of microevolution are mutations, natural selection, gene flow, genetic drift, or some \_\_\_\_\_ of these.

(54) \_\_\_\_\_ alone create new alleles, while natural selection, genetic drift, and gene flow just change the frequency of occurrence of alleles in a population

(55) \_\_\_\_\_ is the outcome of differences in survival and reproduction among individuals that differ in details of heritable traits.

(55) Darwin’s theory of natural selection is based on conclusions made from studying \_\_\_\_\_ and studying a book by Thomas \_\_\_\_\_ called *An Essay on the Principles of Population*.

(55) Malthus never managed to put forward any \_\_\_\_\_ proof for his theory.

(55) Darwin took the \_\_\_\_\_ doctrine of Malthus and made it a cornerstone of

his own theory.

(56) Darwin used an \_\_\_\_\_ to show that in artificial selection, man is the selector of desirable traits, and in natural selection, “nature” selects the desirable traits.

(57) When a predator seeks out its prey, it is not thinking “I’m going to eat you because you are genetically inferior”, it is thinking “If I can catch you, you’re \_\_\_\_\_”.

(57) Since mutations are usually harmful, we can reason that “better adapted”, which can only occur because of mutations, doesn’t mean “better genes”.

(57) Gene \_\_\_\_\_ is the physical movement of genetic material into and out of a population.

(58) Genetic \_\_\_\_\_ can result when a large population is greatly reduced in size, and can greatly reduce the gene pool of the population.

(60) A better name for microevolution may be \_\_\_\_\_.

(60) There are \_\_\_\_\_ to the diversity of functioning alleles for a particular gene.

(60) Gain of function mutations have been known to create genes that have a novel function, but none have been found that created a \_\_\_\_\_ novel function.

(60) The \_\_\_\_\_ story, which is used to prove natural selection, was actually faked.

(61) \_\_\_\_\_ within a population is an attribute of God, and can be seen in Scripture verses like Romans 12:4-5.

(61) If microevolution really worked, we would be eagerly anticipating the formation of “new and improved” species resulting from the bottleneck in the population of an endangered species. The fact that we don’t is a powerful argument against all forms of evolution.

(62) Darwin had to look to \_\_\_\_\_ programs to understand diversity within a population because he could not find any examples in nature.

(62) \_\_\_\_\_ of *Evolution*, and any videos by Dr. Jobe Martin provide good evidence against natural selection causing adaptation and “better fit” populations.

(62) We should expect \_\_\_\_\_ within a population, because this is an attribute of God.

(62,63) The fact that Malthus’ graphs were not based on scientific data is not discussed in secular \_\_\_\_\_ textbooks.

(63) Darwin also used his theory of natural selection in an attempt to explain \_\_\_\_\_, the topic of Chapter 6.

## Chapter 6 Questions

### *Review*

(xi) Romans 1:20 says “For since the creation of the world, his invisible \_\_\_\_\_ are clearly seen, being understood by the things that are made, even His eternal power and Godhead, so that they are without excuse”.

(39) According to biology textbooks, evolution simply means \_\_\_\_\_ change in a line of descent.

(53) \_\_\_\_\_ are the source of genetic change, and result in either a gain or loss of \_\_\_\_\_ in the gene’s ability to manufacture protein.

(54) Microevolution is defined as the change in allele frequencies in a \_\_\_\_\_.

(54) The four main causes of microevolution are mutations, \_\_\_\_\_, genetic drift, gene flow, or some combination of these.

(60) We should expect diversity within a population, because this is an attribute of God, but we should also see that there are \_\_\_\_\_ to how much change is allowed.

### **Chapter 6**

(64) Recall that Darwin based his theory of natural selection on \_\_\_\_\_, as well as Thomas Malthus’ population theory.

(64) Malthus believed that “Population, when unchecked, increases in a geometrical ratio. Subsistence increases only in an \_\_\_\_\_ ratio”.

(65) A good scientific theory accurately describes a large class of \_\_\_\_\_, and makes definite predictions about the results of future observations.

(65,66) An evolutionary view of life proposes that all species that have ever lived are related by \_\_\_\_\_.

(66) Speciation refers to changes in allele frequencies that are significant enough to mark the formation of descendant species from \_\_\_\_\_ ones.

(66) Species are groups of interbreeding natural populations that are reproductively \_\_\_\_\_ from other such groups.

(66) In the biology text by Starr and Taggart, all examples of speciation merely display slight morphological differences, and 4 of the 7 examples are mentioned as still being able to \_\_\_\_\_ with each other, which according to the above definition, doesn’t make them separate species.

(66) The species concept does not apply to \_\_\_\_\_ reproducing organisms, which make clones of themselves.

(67) In the evolutionary view, natural selection can lead to speciation, which can lead to \_\_\_\_\_.

(67) Macroevolution is defined as large-scale patterns, trends, and rates of \_\_\_\_\_ among higher taxa.

(67) The definition for macroevolution sounds very mathematical, but no \_\_\_\_\_ are mentioned that describe it

(67) Evidences used for macroevolution include the fossil record, the geologic record, radiometric dating of \_\_\_\_\_, and morphological comparisons.

(68) Prior to Darwin, most scientists believed in the theory of \_\_\_\_\_ which was based on a literal interpretation of the flood described in Genesis Chapters 6-9.

(68) In order to explain macroevolution, Darwin needed long periods of time, and he applied the then developing theory of \_\_\_\_\_, which hypothesized that the layers of sedimentary rocks where fossils are found developed over long periods.

(68) The confusion found in biology textbooks in regards to \_\_\_\_\_ formation comes from trying to justify uniformity in the midst of overwhelming evidence for catastrophism.

(68) If macroevolution is true, then there should be billions and billions of \_\_\_\_\_ forms in the fossil beds.

(68) Darwin considered the non-existence of transitional forms “the most obvious and gravest \_\_\_\_\_ that can be urged against my theory”(p. 280 of Origins).

(70) The fact that all modern animal phyla appear together in the \_\_\_\_\_ layer of rocks is a major problem for the theory of macroevolution, but this is not suggested in secular biology textbooks.

(70) New evidence suggests that the \_\_\_\_\_ was formed rapidly when the dams holding back massive glacial lakes broke.

(71) Matthew Maury disagreed with Darwin on the theory that the seas became salty. He used the fossil record and the account given in the first chapter of \_\_\_\_\_ as evidence that the seas were never fresh.

(72) In order to use radiometric dating it must be assumed that the isotopes in the rock decayed at a \_\_\_\_\_ rate, that the original amount of isotope can be accurately guessed, and that the isotopes decayed in an exponential pattern.

(72) Because of the \_\_\_\_\_ of knowing whether or not the assumptions that must be made to use this method are valid, radiometric dating is very unreliable.

(72) Morphological comparisons are comparisons of the \_\_\_\_\_ and structures of different parts.

(73) Comparisons of early embryonic stages of vertebrates found in secular biology textbooks, are based on faked sketches. In reality, early stages of embryos of different species are quite \_\_\_\_\_.

(73) Even though humans have 98% of their DNA in common with chimpanzees, that still leaves 2%, or \_\_\_\_\_ million base pairs, that had to spontaneously organize themselves into beneficial genes.

(74) The evolutionist will say that morphological similarities point to a common ancestor, while the creationist will say that the similarities point to a common Designer.

(74) Recall that we can have a false major premise, which can still give us a logical argument, but it will lead to a false \_\_\_\_\_.

(74) We can try to use our \_\_\_\_\_ to answer the question of origins, but we will always come up short because we were not able to make direct observations. We can try to use our \_\_\_\_\_ to answer the question of origins, but to do that we must have a major premise, and if our major premise is false, then everything that is based on that major premise will also be false. Ultimately, whatever you believe as truth about origins is based on \_\_\_\_\_.

(75) There are many truths of the senses, understanding and belief that support my belief that World War 2 happened, even though I wasn't alive during the time. In the same way, there are many truths of the senses, understanding, and belief that support my belief that God created the earth and all the species in \_\_\_\_\_ days.

(75) At one time Darwin did not "in the least doubt the strict and literal truth" of the Bible, but disbelief crept over him at a "very slow rate, but was at last complete". \_\_\_\_\_ chapter 6 has a vivid description of what will happen to people who have "tasted the good word of God" and then "fall away", and it ain't pretty!

(76) Ultimately, what you believe about origins is based on \_\_\_\_\_, and you can have faith that the Bible is the most accurate account of the origin of species, or you can believe something else. Faith in God's word is a gift from God, and is not something you can earn or buy (Ephesians 2:8-9).

(76) God's word reveals that there is more to this life than what is happening on earth right now, and one day those who obey Him will "enter through the gates of the city", while those who cannot enter include anyone who "loves and practices a \_\_\_\_\_" (Revelation 22:14-15).

## Chapter 7 Questions

### *Review*

(xi) Romans 1:22-23 says “Professing to be wise they become fools, and changed the glory of the incorruptible God into an image made like corruptible \_\_\_\_\_, and birds, and four-footed animals and creeping things.

(65) Charles Darwin’s theory of natural selection was not based on any \_\_\_\_\_ evidence from nature, but was rather based on breeding programs and make-believe graphs!

(66) Typical examples of “evidences” of \_\_\_\_\_ are simply examples of genetic drift and/or hybridization.

(67) Since no direct observations of \_\_\_\_\_ can be made, the theory is based on evidence. These evidences include the fossil record, the geologic record, radiometric dating of rocks, and morphological comparisons of existing species.

(74) Ultimately, what you believe as truth about origins is based on \_\_\_\_\_, and you can either have faith that the Bible is the most accurate account of the origin of species, or you can believe something else happened.

### **Chapter 7**

(77) Science is not about “truths of \_\_\_\_\_”, but it is about “truths of the senses”.

(77) Real science forms general conclusions that describe a collection of observations, or facts. \_\_\_\_\_ on origins works in reverse, and tries to generate facts based on the conclusions that we see around us about the past

(78) Everything is made of \_\_\_\_\_.

(78) According to the big bang theory, all of the matter and energy in the universe was distributed almost \_\_\_\_\_.

(78) While many scientists have no problem believing the entire universe formed almost instantaneously, they have a huge problem believing God created the universe, the earth and all living things in \_\_\_\_\_ days.

(79) Organic chemicals are chemicals made by living things, and one particularly important group of organic chemicals is \_\_\_\_\_.

(79) One major problem with using the Miller-Urey experiment in current secular biology textbooks is that by \_\_\_\_\_, most scientists had concluded that the experiment was irrelevant.

(81) In order to try and convince us that evolution happened, secular biology textbooks must use \_\_\_\_\_ to do it.

- (81)** Questions about origins are for \_\_\_\_\_ class, not biology.
- (81)** The main method that scientists use to determine the age of the earth is a method called \_\_\_\_\_.
- (82)** Because of the impossibility of knowing whether or not the \_\_\_\_\_ used in radiometric dating are valid, the method is very unreliable.
- (82,83)** When the Bible does speak of observable phenomena, we better \_\_\_\_\_, and if our scientific research doesn't match up with what the Bible says, then it is man that is in error, not Scripture.
- (83)** Research by ICR ([www.icr.org](http://www.icr.org)) provides evidence for accelerated decay of radioisotopes, which contradicts the current radiometric dating assumption that decay rates are \_\_\_\_\_.
- (84)** If you look for it, there is plenty of \_\_\_\_\_ to support the fact that current dating methods for fossils, the earth, and the universe are erroneous and misleading.
- (84)** John Chapter 1 says "In Him was life, and the life was the light of men. And the light shines in the darkness, and the darkness did not \_\_\_\_\_ it".

## Chapter 8 Questions

### *Review*

- (9) Francis Bacon said “A man cannot be too well studied in the book of God’s word or in the book of God’s \_\_\_\_\_, divinity or philosophy, but rather endeavor an endless progress or proficiencie in both.
- (79) One major problem with using the Miller-Urey experiment in current secular biology textbooks is that by 1980, most scientists had concluded that the Miller-Urey experiment was \_\_\_\_\_.
- (82) Because of the impossibility of knowing whether or not the \_\_\_\_\_ made are valid, radiometric dating is very unreliable.
- (82,83) If our scientific research doesn’t match up with what the Bible says, then it is \_\_\_\_\_ that is in error, not Scripture.
- (84) Wollemi Pine trees, thought to be extinct for \_\_\_\_\_ million years, were discovered alive in Australia in 1994.

### **Chapter 8**

- (86) Philosophers in Galileo’s day (early 1600’s) were not trying to reconcile Scripture with direct observation, but instead were trying to reconcile it with man’s \_\_\_\_\_ in the form of Aristotelian philosophy.
- (86) Galileo’s heart was to show that “The Holy Bible can never speak untruth”, while \_\_\_\_\_ heart was to “show that the species had not been separately created”.
- (86) The discussion of Galileo’s trial in the biology text by Starr and Taggart is an attempt to show that science and religion don’t mix, and is yet another suppression of \_\_\_\_\_.
- (87) The Bible says in Genesis Chapter 1 and 2 and in Exodus 20:11 that the earth and all life was created in \_\_\_\_\_ 24-hour days.
- (87) I trust God when He said He created in 6 days that He meant 6, 24-hour days, just like when Jesus said in Luke 18:33 “and the \_\_\_\_\_ day He will rise again” he meant 3, 24-hour days.
- (87) The “world that was then” was destroyed by \_\_\_\_\_.
- (88) The current creation is held together by its Creator (Colossians 1:17), and will eventually be destroyed by \_\_\_\_\_.
- (88) In the “world that shall be”, everything will be made new again (\_\_\_\_\_ 3:21, Revelation 21:5).
- (88) Man’s attempts to use the scientific method to prove what happened in the past is not real science but instead is \_\_\_\_\_.

**(89)** A \_\_\_\_\_ evolutionist believes that God used evolution as His mechanism for creating life.

**(89)** \_\_\_\_\_ Creationism is the belief that intermittent acts of creation were interspersed between long ages of either slow or no evolution.

**(90)** The \_\_\_\_\_ theory suggests that the evolutionary ages were completed before the Creation week (Genesis 1:1&2).

**(90)** Just like it was wrong for the philosophers and church leaders of Galileo's day to use something the Bible did not say to prove that a man's (Aristotle) reasoning was right, I think it is wrong for us to use something the Bible did not say to prove a man's (\_\_\_\_\_) reasoning was right. The Bible doesn't say "6 million years" or "6 seconds", it says God created everything in 6 days.

**(92)** Read Job 38-41 and Isaiah 40. These verses are a reminder that we are not as \_\_\_\_\_ as we think we are. We can try to disprove God like Darwin did, but we will eventually fail.

**(93)** Follow the examples set by men like Galileo and Mercator, and question the "traditions of men", and if these philosophies don't match up with what God's word says or His \_\_\_\_\_ reveal, then reject them.

## Chapter 9 Questions

### *Review*

(xi) Romans 1:20 says “For since the creation of the world, His invisible attributes are clearly seen, being understood by the things that are made, even His eternal power and Godhead, so that they are without \_\_\_\_\_”.

(13,19) Inductive reasoning is about finding rules, deductive reasoning is about \_\_\_\_\_ rules, and critical thinking is about asking \_\_\_\_\_.

(87) In \_\_\_\_\_ 20:11, when God said he created in 6 days, he meant 6, 24-hour days, just like when Jesus said “and the third day He will rise again (Luke 18:33)”, he was speaking of 3, 24-hour days.

(90) Just like it was wrong for the philosophers and church leaders of \_\_\_\_\_ day to use something the Bible did not say (doesn't say anything about the earth's rotation about the Sun) to prove that a man's(Aristotle) reasoning was right, I think it is wrong for us to use something the Bible did not say (does not say God created in 6 “periods of time”) to prove a man's (Darwin) reasoning was right.

(93) Follow the examples set by men like Galileo and Mercator, and question the “\_\_\_\_\_ of men”, and if these philosophies don't match up with what God's word says or His works reveal, then Christians should reject them.

### **Chapter 9**

(95) As the fallacy of evolution becomes more exposed, more people will want textbooks to begin stating the obvious, which is that life was \_\_\_\_\_.

(95) The major premise of ID is that intelligence is a real phenomenon which cannot be reduced to \_\_\_\_\_ causes and which can be identified scientifically.”

(96) Design theory has been around at least since the time of ancient Greece, and was a commonly accepted theory prior to Darwin's theory of \_\_\_\_\_.

(96) The order and complexity of the \_\_\_\_\_ suggest that it, like a watch, was designed.

(96) One reason pre-Darwinian design theory failed was because it had no rigorous \_\_\_\_\_ for detecting design

(97) Current design theory (a.k.a. intelligent design) states that intelligent causes can be detected by testing for \_\_\_\_\_ complexity and irreducible complexity.

(97) Specified complexity is found everywhere, even in a seemingly simple word like BIOLOGY, because it is specified (fits a recognizable \_\_\_\_\_) and

it is complex (1 in 8 billion chance of making the word by pulling letters from a bag).

**(97)** A mousetrap is an example of an irreducibly \_\_\_\_\_ system, because if you take away just 1 part, it will not function properly.

**(97)** ID is a good scientific theory because it accurately describes a large class of observations and it makes definite \_\_\_\_\_ about future observations.

**(98)** ID theory will help scientists understand how to separate real science from \_\_\_\_\_, and to realize that science cannot explain everything.

**(99)** To \_\_\_\_\_ that specified complexity shows that intelligent causes exist, a person will have to believe that either they are not an intelligent being, or that they do not exist.

**(99,100)** Specified complexity is analogous to God's word (John 1:1), and irreducible complexity is analogous to the Body of \_\_\_\_\_ (I Cor. 12:12).

**(100)** Science and Christianity are inseparable, not because the Bible is a \_\_\_\_\_ textbook, but because science is a tool that man can use in order to know God better.

**(100,101)** If public schools want textbooks that include evolution, then they should allow ID to be taught as well, especially since evolution cannot explain \_\_\_\_\_ creation, but ID can.

**(101)** One reason ID theory does not proclaim a designer is because it can be used to explain both God-made and \_\_\_\_\_ causes.

**(101)** According to Romans 1:19, it doesn't take faith to know that God exists because everyone knows who He is. It just takes faith to trust Him with your \_\_\_\_\_, and that faith only comes from God.

**(101)** One of the main reasons ID should not be taught in public schools is because they will not proclaim who the \_\_\_\_\_ is, which will lead to confusion and deception. Until public schools change, it will be up to Christian churches, schools and families to provide excellent and proper science education.

## Chapter 10 Questions

### *Review*

(xi) Romans 1:24-25 says “Therefore, God gave them up to uncleanness, in the lusts of their hearts, to dishonor their bodies among themselves, who exchanged the \_\_\_\_\_ of God for the lie, and worshiped and served the creature rather than the Creator, who is blessed forever, Amen.

(95) The major premise of intelligent design is “that intelligence is a real phenomenon which cannot be reduced to \_\_\_\_\_ causes and which can be identified scientifically”(from p. 15 of *The Wedge of Truth*).

(97) Current design theory (a.k.a. intelligent design) states that intelligent causes can be detected by testing for \_\_\_\_\_ complexity and irreducible complexity.

(101) One reason ID theory does not proclaim a designer is because it can be used to explain both God-made and \_\_\_\_\_ causes.

(101) The main reason ID should not be taught in public schools is because they will not proclaim who the \_\_\_\_\_ is, which will lead to confusion and deception. Until public schools change, it will be up to Christian churches, schools and families to provide excellent and proper science education.

### Chapter 10

(105) During this course, we have studied Darwin’s works directly, and have come to find that his major premise in writing *Origin of Species* was to “show that the species had not been \_\_\_\_\_ created, and secondly, that natural selection had been the chief agent of change”(p. 62 of *Descent*).

(105) In an attempt to disprove the \_\_\_\_\_ account, Darwin believed lies.

(105,106) If someone \_\_\_\_\_ the truth of God’s word for a lie in one part of Scripture, this will have a cascading effect, exposing the lie in many other parts of Scripture.

(106) Scripture teaches that God created man, and that He created man in His own \_\_\_\_\_ (Genesis 1:26).

(106) Ultimately, it was man who made the decision to eat from the tree, and his disobedience is what sin is about. Sin means to \_\_\_\_\_.

(106) Scripture teaches that the penalty or \_\_\_\_\_ of sin is death (Romans 6:23).

(106) Jesus \_\_\_\_\_ the “wages of sin” for us by dying for our sins (Matthew 26:28, Hebrews 9:27-28).

(106) Since Scripture teaches that sin brought death (Romans 6:23), this is in direct

contradiction to evolution, which teaches that \_\_\_\_\_ brought man.

**(106,107)** Romans 5:18-19 says “Therefore, as through one man’s (Adam) offense judgement came to all men, resulting in condemnation, even so through one Man’s (Jesus) righteous act the free \_\_\_\_\_ came to all men, resulting in justification of life. For as by one man’s disobedience many were made sinners, so also by one Man’s obedience many will be made righteous”

**(107)** If death brought man, which is what evolution says, then there is no place for sin, and there is no reason for \_\_\_\_\_ to die for our sins, because it would be pointless for Him to die for our sins if death was not the penalty for sin.

**(108)** If evolution is true, the Bible should clearly support it with verses expressing how the healthiest, wealthiest, most \_\_\_\_\_ people will dominate the earth. However, the Bible doesn’t do this.

**(108)** Psalm 8:2 “Out of the mouths of babes and nursing \_\_\_\_\_ you have ordained strength, Because of Your enemies, that You may silence the enemy and the avenger”

**(108)** Matthew 5:5 “Blessed are the \_\_\_\_\_, for they shall inherit the earth”.

**(108)** Philippians 2:3 “Let nothing be done through selfish ambition or conceit, but in \_\_\_\_\_ of mind let each esteem others better than himself”

**(108)** Isaiah 40:30 “Even the youths shall \_\_\_\_\_ and be weary, and the young men shall utterly fall, but those who wait on the Lord shall renew their strength”.

**(108)** Matthew 11:29 “Take my yoke upon you and learn from Me, for I am gentle and \_\_\_\_\_ in heart, and you will find rest for your souls. For my yoke is easy and My burden is light”.

**(108)** Galatians 3:28 “There is neither Jew nor Greek, there is neither slave nor free, there is neither male or female; for you are all \_\_\_\_\_ in Christ Jesus”.

**(108)** I Samuel 17:45 “So \_\_\_\_\_ prevailed over the Philistine with a sling and a stone, and struck the Philistine and killed him”.

**(108)** Jesus wants us to consider \_\_\_\_\_ better than ourselves, not consider ourselves better than others, which is exactly what evolutionary theory is about.

**(109)** God does not want us to set up our own little kingdoms and think we are “somebody”. He wants to display His \_\_\_\_\_ and His love through us, and he cannot do that if we are so busy trying to be better than everyone else

**(109)** The United States of America, was founded mainly by Christians who wanted to worship the Lord freely and without oppression from a \_\_\_\_\_ who thought he was better than everyone else.

*(109)* However, our public schools and most universities do not teach about America's Christian Heritage anymore, which leads people to believe America is great because of \_\_\_\_\_, not because of God.

*(109,110)* The theory of natural selection is really more of an excuse for a \_\_\_\_\_ towards God and man than it is a theory of any scientific use. To many, it is an excuse for sin.

## Chapter 11 Questions

### *Review*

(108) Philippians 2:3-4 says “Let nothing be done through \_\_\_\_\_ ambition or conceit, but in lowliness of mind let each esteem others better than himself. Let each of you look out not only for his own interests, but also for the interests of others.

(106) Since Scripture teaches that sin brought death (Romans 6:23), this is in direct contradiction to evolution, which teaches that \_\_\_\_\_ brought man.

(107) If death brought man, which is what evolution says, then there is no place for sin, and there is no reason for \_\_\_\_\_ to die for our sins, because it would be pointless for Him to die for our sins if death was not the penalty for sin.

(108) If evolution is true, the Bible should clearly support it with verses expressing how the healthiest, wealthiest, most \_\_\_\_\_ people will dominate the earth. However, the Bible doesn’t do this.

(109) God commands Christians to rule over His creation, but He also wants to display His \_\_\_\_\_ and His love through us. The fruits of the spirit will not be revealed if we have an “I’m better than you” attitude, rather than an attitude of service.

### **Chapter 11**

(111) Surely, Darwin’s theory has tempted many people to commit some horrific acts, but we must keep in mind that it is \_\_\_\_\_ who sin, not theories.

(112) I think it is because of, and not in spite of the evolutionary worldview and its “I’m better than you” mentality that the \_\_\_\_\_ century has been called the bloodiest century in the history of the world.

(112) Malthus’ book, *An Essay on the Principles of Population*, published in 1798, promoted repressive legislation which worsened conditions for the \_\_\_\_\_ in England.

(113) The Lord of the Rings Trilogy by J.R.R. Tolkien provides an excellent example in the character of “Smigle” on the effect that following our \_\_\_\_\_ can have in making us descend to the state of a barbarian.

(113) Having decided to improve the human race through selective breeding, brought about through social intervention, \_\_\_\_\_ developed what he called “Eugenics”.

(114) The Hema and Lendu peoples lived relatively peacefully together for centuries in Ituri until the \_\_\_\_\_ colonized Congo in 1908 and declared the Hema

as racially superior, thus relegating the Lendu to a permanent lower-class status.

(115) \_\_\_\_\_ has indeed fallen into the ethnic trap; first set by nineteenth century European ethnologists and missionaries still in the throes of Darwinism.

(115) From April to July of 1994, over 800,000 Tutsis and moderate \_\_\_\_\_ were massacred.

(116) Hitler's view of life was strongly Social Darwinist, society being seen as an arena in which individuals and groups were engaged in a ceaseless struggle to assert their superiority by \_\_\_\_\_ and cunning

(116) Hitler's \_\_\_\_\_, sterilization, and racial hygiene programs were responsible for the deaths of over 11 million men, women, and children.

(116) "human \_\_\_\_\_, reckless breeders, spawning human beings who never should have been born" ([www.dianedew.com](http://www.dianedew.com)) are a few of the ways Margaret Sanger, founder of Planned Parenthood, described those she considered "inferior" humans..

(116) Margaret Sanger is described as not only the "progenitor of the grisly \_\_\_\_\_ industry", but the "patron of the devastating sexual revolution".

(117) According to George Grant "The bottom line is that Margaret self-consciously organized the Birth Control League—and its progeny, Planned Parenthood—in part, to promote and enforce the scientifically elitist notions of \_\_\_\_\_ Supremacy."

(117) As a result of the \_\_\_\_\_ Trial and Inherit the Wind, in the early 1960's a great deal of added emphasis was placed on evolution theory in biology textbooks

(118) Eric Harris wore a " \_\_\_\_\_ " t-shirt on the day he helped murder 13 of his classmates and teachers at Columbine High School in April of 1999.

(119) In my opinion, the fact that Darwin's theory is based on \_\_\_\_\_ is reason enough to believe that it is not a real scientific theory, but is really more of an attitude or opinion that says "I'm better than you, now get out of my way!"

(119) \_\_\_\_\_ that contain the words eugencis, euthenasia, sterilization, etc. should be red flags for us, and we should stop them in their tracks, or we may end up with another holocaust.

(119) Schools either need to eliminate \_\_\_\_\_ from the textbooks that they use, or if they do discuss it, discuss that it is a lie.

(120) As you go forward, constantly check your attitude towards others, and if your heart is not "How can I serve you?" but "How can you serve me?", then get ready to be judged without \_\_\_\_\_.

## Chapter 12 Questions

### *Review*

(xi) Romans 1:18-25 says “For the wrath of God is revealed from heaven against all the unrighteousness and ungodliness of men, who \_\_\_\_\_ the truth in unrighteousness.....and \_\_\_\_\_ the truth of God for the lie, worshipping and serving the creature rather than the Creator”.

(13,19) Deductive reasoning is about \_\_\_\_\_ rules, inductive reasoning is about \_\_\_\_\_ rules, and critical thinking is about \_\_\_\_\_.

(106) Since Scripture teaches that sin brought death (Romans 6:23), this is in direct contradiction to evolution, which teaches that \_\_\_\_\_ brought man.

(111) Surely, Darwin’s theory has tempted many people to commit some horrific acts, but we must keep in mind that it is \_\_\_\_\_ who sin, not theories.

(120) If your heart is not “How can I serve you?” but “How can you serve me?”, then get ready to be judged without \_\_\_\_\_.

### **Chapter 12**

(123) God created, man fell, Christ paid the debt for our sin, and whether we like it or not, we are currently participating in the \_\_\_\_\_ of His kingdom on earth. The restoring of man’s mind through a Christian education is a significant part of that work.

(124) Bacon referred to the overemphasis of \_\_\_\_\_ as a “disease of learning,” believing Paul’s message in I Tim. 6:20, warning against false knowledge, was prophetic for his day as well.

(124) Bacon sought to advance learning by studying God’s word and His works \_\_\_\_\_, restoring the Christian attribute of unity and diversity in education.

(124,125) John Dewey’s educational philosophy was explicitly linked to an \_\_\_\_\_ socialist agenda.

(125) Dewey based his doctrine on the idea of personal growth, where \_\_\_\_\_ were re-invented by each child.

(125) John Dewey’s philosophy was all about man and his relationship with \_\_\_\_\_, rather than about man and his relationship with God.

(126) The spark that will ignite secular education in a huge fireball is the \_\_\_\_\_ method.

(126) In America, Christians started giving up on public education in increasingly significant numbers around \_\_\_\_\_.

**(127)** Cornelius Van Til said “A basic assumption of anti-theistic thought is that man interprets \_\_\_\_\_ for himself.”

**(127)** Creativity of \_\_\_\_\_ is the foundational principle of a Christian education.

**(127)** A proper Christian education will teach our children how to be good rulers over \_\_\_\_\_.

**(128)** As Christian parents live in covenant with their children, their educational plan must be a plan of restoration, \_\_\_\_\_ children by the renewing of their minds (Romans 12:12), and \_\_\_\_\_ them to make every thought captive to the obedience of Christ (II Corinthians 10:5).

**(128)** A Christian education brings a message of \_\_\_\_\_, helping the student realize their calling as an active and creative participant in His awesome plan of restoration.

**(129)** Teach others about the untruths of \_\_\_\_\_ words and the Truths of God’s words and works.

**(130)** Through Scripture, \_\_\_\_\_, and a Christian education, we are transformed by the renewing of our minds, and we will more readily discern when Truth is exchanged for a lie.

end