

FINAL EXAM_ONLINE EXAM_Dec 9

Due Dec 9 at 6:35pm

Points 43.25

Questions 47

Available Dec 9 at 4:30pm - Dec 9 at 8:35pm about 4 hours

Time Limit 120 Minutes

Instructions

You will have 120 minutes to answer 55 questions-- you should have plenty of time,
In all instances, choose the best answer.

Thank you for a good semester!

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	50 minutes	24 out of 43.25 *
* Some questions not yet graded			

⚠️ Correct answers will be available on Dec 11 at 8am.

Score for this quiz: **24** out of 43.25 *
Submitted Dec 9 at 5:27pm
This attempt took 50 minutes.

Question 1

Not yet graded / 2 pts

1. What is Dr. Delaney's favorite non human primate?

2. What is one thing from the class which you will use in the future?

Your Answer:

tarsier

One thing from this class that I will use in the future is just the understanding of our ancestors.

Question 2**0.75 / 0.75 pts**

Natural selection acts on the phenotype

☒ True

☐ False

Question 3**0.75 / 0.75 pts**

Denisovans are Asian variants of *Homo erectus*

☐ True

☒ False

Question 4**0.75 / 0.75 pts**

The potassium-argon dating technique permits the determination of an actual calendrical date.

☒ True

☐ False

Incorrect

Question 5**0 / 0.75 pts**

Robust Paranthropine bodies are physically twice the size of gracile Australopithecines.

☒ True☐ False

Incorrect

Question 6**0 / 0.75 pts**

Scientists believe the deleterious sickle cell allele confers a heterozygous advantage.

☐ True☒ False

Incorrect

Question 7**0 / 0.75 pts**

Read the following to answer this question:

Suppose that you crossed a strain of true breeding yellow plumeria (YY) flowers with true breeding white (WW) roses (F0 generation), and obtained in the F1 generation all white flowers; then cross two offspring from the F1 generation to produce the F2 generation.

What is the genotypic ratio found in the F2 generation?

☐ 1 WY : 1 HL : 1 YY

☒ 2 WW : 1 WY : 1 YY☐ 1 WW : 1 WY : 2 YY☐ 1 WW : 2 WY : 2 YY

Incorrect

Question 8**0 / 0.75 pts**

Read the following and answer this question:

Suppose that you crossed a strain of true breeding yellow plumeria (YY) flowers with true breeding white (WW) roses (F0 generation), and obtained in the F1 generation all white flowers; then cross two offspring from the F1 generation to produce the F2 generation.

The probability that a heterozygous offspring will be produced in the F2 generation is:

☒ 25%☐ 75%☐ 100%☐ 50%

Incorrect

Question 9**0 / 0.75 pts**

Read the following and answer the question at the end:

Background: Suppose that you crossed a strain of true breeding yellow plumeria (YY) flowers with true breeding white (WW) roses (F0 generation), and obtained in the F1 generation all white flowers; then cross two offspring from the F1 generation to produce the F2 generation.

additional information for this questions:

Now suppose you breed a member of the F1 generation with a true breeding yellow (YY) Flowers. What is the possible phenotypic ratio in this new F3 population?

- ☐ not enough information is provided to answer
- ☐ all yellow (4 yellow : 0 white)
- ☐ 2 white : 2 yellow
- ☒ 3 white : 1 yellow
- ☐ all white (4 white : 0 yellow)

Question 10

0.75 / 0.75 pts

According to the Skin Deep article, melanin production affects:

- ☐ the development of rickets
- ☐ vitamin D production
- ☐ development of skin cancer
- ☒ all these answers

Question 11

0.75 / 0.75 pts

When discussing natural selection, the term "fitness" is best thought of as :

- ☐ strength
- ☒ reproductive success
- ☐ a reference to physical fitness

Incorrect

Question 12

0 / 0.75 pts

In which primate social group would infanticide most likely take place?

- ☐ one-male polygynous
- ☐ solitary
- ☒ polyandrous
- ☐ multiple male polygynous
- ☐ monogamous

Incorrect

Question 13

0 / 0.75 pts

According to the Donner Party demographic study, these individuals were the first to die after being snow bound in the Sierra Nevada mountains:

- ☐ the elderly

- ☒ children
- ☐ young adult men
- ☐ young adult women

Incorrect

Question 14**0 / 0.75 pts**

An animal that has generalized dentition, a relatively large brain, and has a bipedal form of locomotion is categorized as a hominid.

Which trait do the Australopithecines **NOT** possess, which is why they are placed in the family Hominoid, and not the genus *Homo*.

- ☐ relatively large brain compared to body size
- ☐ generalized dentition
- ☒ bipedal locomotion

Incorrect

Question 15**0 / 0.75 pts**

The hominin paleospecies group that was adapted to seasonally eating hard, dry plant foods and underground root foods was:

- ☐ Erectines
- ☐ archaic *Homo sapiens*
- ☐ Paranthropines
- ☒ Australopithecines

Question 16**0.75 / 0.75 pts**

Which non-human primate lives in a monogamous social/mating group?

- ☐ tamarin
- ☐ chimpanzee
- ☐ orang-utan
- ☒ gibbon

Incorrect**Question 17****0 / 0.75 pts**

The skeleton of 1808, a *Homo erectus* female, provided valuable evidence that some anthropologists use to interpret *Homo erectus* behavior. What is the behavior?

- ☐ ritual/religion
- ☒ control of fire
- ☐ caregiving
- ☐ symbolism/art

Question 18**0.75 / 0.75 pts**

Which is **NOT** a trait identified with the Primate Order?

- ☐ generalized dentition
- ☒ fur
- ☐ opposable digits
- ☐ longer maturation period

Incorrect**Question 19****0 / 0.75 pts**

Senut and colleagues argue that *Orrorin tugenensis* is likely a hominin on the basis of what evidence?

- ☒ features of the base of the skull
- ☐ footprints preserved in volcanic ash
- ☐ features of the spine and ribs
- ☐ features of the femur

Question 20**0.75 / 0.75 pts**

Based on fossil evidence, what is the relationship between the evolution of bipedalism and large brains in hominin evolution?

- ☐ They co-evolved.
- ☒ Bipedalism preceded large brains by millions of years.
- ☐ Large brains preceded bipedalism by millions of years.



The first hominins had large brains and were quadrupedal, while later hominins had small brains and were bipedal.

Question 21**0.75 / 0.75 pts**

Imagine you have found a skull with an ape-size brain, sagittal crest, very large back teeth, and large cheekbones. Based on this information, this is most likely a specimen of:

- ☐ a modern human
- ☐ Australopithecus afarensis
- ☐ Australopithecus africanus
- ☒ a robust Paranthropine

Incorrect**Question 22****0 / 0.75 pts**

The large browridges and the ridge at the back of the skull of *Homo erectus* are

- ☐ needed to buttress the skull against novel stresses created by an increased emphasis on tearing and biting.
- ☐ larger in females than in males.
- ☐ smaller than those seen in australopithecines.

- ☒ characteristic of australopithecines as well.

Incorrect

Question 23

0 / 0.75 pts

Evidence that *Homo erectus* ate meat includes the fact that

- ☐ Homo erectus lived in areas where fruits and plant food were not always available.
- ☐ their teeth were well designed for shearing.
- ☐ they lived in Africa.
- ☒ their tools were well designed for chopping.

Question 24

0.75 / 0.75 pts

Scientists have established that Oldowan flakes were

- ☒ useful for a wide range of functions, including butchering animals.
- ☐ accidental by-products of using round cobbles for various purposes.
- ☐ primarily used for hunting large game like elephants.
- ☐ primarily a waste product of making Oldowan tools.

Incorrect

Question 25

0 / 0.75 pts

Which of the following statements is true of contemporary human foragers?

☐

They rely more on domesticated foods from their gardens than on wild foods.

☐

They have almost identical diets as chimpanzees, plus meat.

☐

They take years to learn to forage and are usually adults before they are proficient hunters and food extractors.

☒

They collect the majority of their food as ripe fruit or otherwise easily accessed sources.

Question 26

0.75 / 0.75 pts

The difference between a stone-tool mark and a tooth mark is that

☐

tooth marks occur along the entire shaft of the bone, but stone-tool marks occur only at the end of the bone.

☐

stone-tool marks contain stone flake residue.

☐

stone-tool marks are crooked because hominins were not skilled at using stone tools.



tooth marks leave smooth grooves, and stone-tool marks leave many jagged parallel grooves.

Incorrect

Question 27

0 / 0.75 pts

Which of these is the MOST widely supported explanation for the small body size and mixture of primitive and derived traits of *Homo floresiensis*?

- ☐ H. floresiensis is a result of evolutionary dwarfism.
- ☐ H. floresiensis is a hoax.
- ☐ H. floresiensis had microcephaly.
- ☒ H. floresiensis had an ancestor older than Homo erectus.

Question 28

0.75 / 0.75 pts

Primitive features of *Homo heidelbergensis* include a

- ☐ flat face with a projecting chin.
- ☐ skull with more vertical sides.
- ☒ large, prognathic face, lacking a projecting chin.
- ☐ a higher forehead.

Question 29**0.75 / 0.75 pts**

Neanderthals are known to have used

- ☐ only Oldowan tools
- ☐ only wood and bamboo tools
- ☐ mostly Acheulian tools
- ☒ a wide range of Mousterian tools.

Question 30**0.75 / 0.75 pts**

Which of the following statements correctly describes Neanderthals?

- ☒ They had relatively short life spans of no more than 45 years and often had injuries such as bone fractures.
- ☐ They were often killed by large predators, as most of their bones are found in predator lairs and show gnaw marks.
- ☐ They had relatively short life spans of no more than 45 years and were very healthy, with almost no evidence of injury or disease as shown by their bones.
- ☐ They are represented by very few bones that tell us very little about their lifeways.

Question 31**0.75 / 0.75 pts**

What does genetic data from fossils found at Denisova Cave indicate?

- ☐ Neanderthals and other hominins of the time were genetically isolated.
- ☒ Denisovans, a population that predates 50,000 years, share a common ancestor with Neanderthals postdating the Neanderthal–human split.
- ☐ The Denisovans are a form of Neanderthal.
- ☐ A very small-bodied form of Homo ergaster or erectus evolved in Europe.

Incorrect**Question 32****0 / 0.75 pts**

The first clear evidence of the construction and use of shelters is associated with :

- ☐ Australopithecines
- ☐ Denisovans
- ☐ humans
- ☒ Paranthropines

Incorrect**Question 33****0 / 0.75 pts**

Which of the following statements about Upper Paleolithic tools is correct?

- ☐ They took more time to make and are more standardized compared with earlier technologies.
- ☐ They are also known as Acheulean.
- ☒ They were almost indistinguishable across broad geographic areas.
- ☐ They are like Middle Paleolithic tools but date to a later time period.

Incorrect

Question 34

0 / 0.75 pts

Upper Paleolithic people were the first to

- ☐ migrate outside of Africa.
- ☐ live in caves.
- ☐ regularly create art and ornamentation, perform ritual burials, and practice other forms of symbolic expression.
- ☒ make tools from stone and bamboo.

Question 35

0.75 / 0.75 pts

The fact that humans lived in Australia by 40 kya suggests that

- ☐ b.they migrated there from Europe.
- ☒ they were capable of building boats.
- ☐ they were capable of walking very long distances.
- ☐ glaciers extended into the Southern Hemisphere.

Question 36**0.75 / 0.75 pts**

Imagine you are a paleoanthropologist. You have found a fossil that dates to 150 kya in Africa, and it has a chin. How would you classify this specimen?

- ☒ Homo sapiens
- ☐ Homo neanderthalensis
- ☐ Homo ergaster
- ☐ Homo heidelbergensis

Question 37**0.75 / 0.75 pts**

Scientists conventionally divide human variation into which two components?

- ☐ genetic and cultural
- ☐ cultural and environmental.
- ☐ cultural and phenotypic.

- ☒ genetic and environmental

Question 38**0.75 / 0.75 pts**

Which of the following is/are example(s) of variation among groups?

- ☐ variation in height and wight among jockeys
- ☒ the distribution of sickle cell anemia among African populations
- ☐ variation in height for college basketball players
- ☐ differences in body weight between parents and their offspring

Question 39**0.75 / 0.75 pts**

Which of the following describes sickle-cell anemia?

- ☐ It causes unusually shaped blood vessels.
- ☐ It is caused by a lack of protein.
- ☐ It is caused by a lack of iron.
- ☒ It causes unusually shaped red blood cells.

Question 40**0.75 / 0.75 pts**

Which of the following statements correctly describes inbreeding?

☐

It is bad because individuals with families have more defects than individuals without families.

☐

It is good because it removes deleterious alleles from the population.

☐

It decreases the chances of deleterious recessives coming together in one individual.

☒

It increases the chances of deleterious recessive alleles coming together in one individual.

Question 41

0.75 / 0.75 pts

In Buss's cross-cultural survey of mate preferences, he found that males and females cared most about

☐

chastity

☒

mutual attraction and love

☐

good sex

☐

good looks

Incorrect**Question 42****0 / 0.75 pts**

According to evolutionary psychologists, the environment of evolutionary adapted:

- ☐ never existed
- ☐ has not yet arrived
- ☒ is here now
- ☐ is long gone

Question 43**0.75 / 0.75 pts**

Which of the following statements about culture is true?

- ☒ It is common in other primates, but cumulative cultural change is rare in other animals.
- ☐ It occurs only in humans.
- ☐ It is common in other primates and is also cumulative, just as in humans.
- ☐ It is common in other primates.

Incorrect**Question 44****0 / 0.75 pts**

According to your text, humans owe much of their success to what combination of factors?

- ☐ individuality and perseverance
- ☐ intelligence and the ability to cooperate in the context of culture
- ☒ the ability for social learning and a large population size
- ☐ a large brain and superior genes for behavior

Partial

Question 45

2.25 / 3.75 pts

Matching. Choose the best answer. Some answers might not be used. Some answers maybe used more than once.

has a sagittal crest

Paranthropus robustus/ ▼

may be responsible for the Olduvai Gorge sites and Oldowan tools

Homo erectus ▼

has a sagittal keel

Homo erectus ▼

frequently used their teeth/mouths as a third hand

archaic Homo sapiens | ▼

were the first hominins to create extensive evidence of art & jewelry

archaic Homo sapiens | ▼

Question 46**3 / 3 pts**

Matching. Choose the best answer. Some answers might not be used.
Some answers maybe used more than once.

**created Achuelian
handaxes**

Erectines



**has the smallest cranial
capacity of the hominin
species listed**

Paranthropines



has an occipital bun

archaic Homo sapiens-

**Partial****Question 47****1.5 / 2.25 pts**

Matching. Choose the best answer. Some answers might not be used.
Some answers maybe used more than once.

**responsible for the
Boxgrove Quarry site**

Homo heidelbergensis



has an occipital torus

Homo sapiens



first to migrate to Australia

Homo sapiens

**Quiz Score: 24** out of 43.25