

1994 Heinrich Bowl
Question Packet 19

1. It has the chemical formula $C_{10}H_{16}O$, and it is very abundant along the southern shore of the Baltic Sea. Specimens of this substance have been dated to over 40 million years old, and often include ancient insect fossils. For 10 points, name this yellowish fossilized resin.

Answer: amber

2. He was a Florentine businessman who lived in Seville managing the banking interests of the Medici family. In 1501 under Portuguese sponsorship he charted the coast of South America as far south as the Rio de la Plata. When in 1507 a group of scholars set out to map the known world, one of them named the land which is now Brazil in his honor. For 10 points, name this explorer whose first name was later applied to all the new Western Hemisphere lands.

Answer: Amerigo Vespucci

3. He wrote three ballets, Dybbuk, Fancy Free, and Facsimile and three symphonies The Age of Anxiety, Kaddish, and Jeremiah. For 10 points, identify this American composer and conductor of the New York Philharmonic.

Answer: Leonard Bernstein

4. He was born in 1921 and attended Muskingum College. He served as a fighter pilot in both World War II and the Korean War, and in 1957 he made the first transcontinental supersonic flight. For 10 points, name this coauthor of the 1978 Nuclear Nonproliferation act and current Ohio senator who, on February 20, 1962, made history by orbiting the earth three times in the Friendship 7 capsule.

Answer: John Glenn

5. In the book of Isaiah, one of these beings touches the prophet's lips with a burning coal to purify them. These creatures are mentioned several other times in the Bible as well as in the literature and art of other Middle Eastern religions. For 10 points, name these six-winged beings which are the highest rank of angels.

Answer: seraphim

6. His law is a mathematical relationship between the current in a wire and the magnetic field it produces. The unit which bears his name is defined using two long parallel conductors with a force of 2×10^{-7} Newtons/meter between them. For 10 points, name this French physicist or the unit of current named for him.

Answer: Adrian Marie Andre Ampere

7. This city was originally called Akhitiar and was founded in the thirteenth century. Today it is an important naval base and manufacturing center with a population of over 300,000 people. The city experienced severe damage during World War II when it was taken by Germans and later recaptured by Russians. An even more devastating battle occurred during the Crimean War, which started with an 11 month siege and ended with almost complete destruction. For 10 points, name this Ukrainian city on the Crimean peninsula, one of the most important ports on the Black Sea.

Answer: Sevastopol

8. He was one of the most influential artists of the early Renaissance and one of the first to use mathematical perspective in his paintings. For 10 points, identify this Italian artist whose works include Madonna and Child, Tribute Money, Expulsion from Paradise, and the Trinity fresco.

Answer: Masaccio

9. His first film appearance, as an ordinary seaman in Noel Coward's In Which We Serve, was followed by several very similar roles, but his characterization of the vicious young hooligan in Brighton Rock led to many more varied roles. He became a director in 1969, with O What a Lovely War!. For 10 points, identify this award-winning director of A Bridge Too Far and Gandhi.

Answer: Sir Richard Attenborough

10. He was a homosexual who, at 33, committed suicide by jumping overboard into the Gulf of Mexico. For 10 points, identify this American author who claimed to hear "a kitten crying in the wilderness," when he wrote his "mystical synthesis of 'America'" which was The Bridge.

Answer: Hart Crane

11. In addition to food, it could also be used to anoint the skin and hair. Beauty, strength, swiftness, and immortality were said to be bestowed upon a mortal who tasted it. For 10 points, name this substance which in classical mythology was "the food of the gods".

Answer: ambrosia

12. Among this group's songs are Teenage Whore and Garbage Man which appear on their first album, Pretty on the Inside.

However, more recently, this band has produced a critically acclaimed album entitled, Live Through This, that has not received much attention due to the tragedy surrounding the group. For 10 points, identify this band whose recent mishaps have included the death of bassist, Kristin Pfaaf, as well as the suicide of the husband of the lead singer, Courtney Love.

Answer: Hole

13. He became pharaoh in 1366 B.C. and reigned until his death in 1349 when he was succeeded by his son-in-law Tutankhamen. During his reign he founded a new capital, fostered a naturalistic school of art and literature, and abolished the traditional Egyptian priesthood. For 10 points, name this pharaoh who is best known for instituting a monotheistic religion worshipping the sun god Aton.

Answer: Amenhotep IV or Akhenaton

14. In this novel, a wealthy old man distrusts his heirs, including his namesake grandson, who travels to America and almost dies of fever in a fraudulent land development near the Ohio River. This experience causes him to lose his former selfishness, and he returns to England where he is reconciled with his grandfather. For 10 points, identify this Dickens novel in which the common name of these two characters is also the title.

Answer: Martin Chuzzlewit

15. His reply to Burke's Reflections on the French Revolution led to a mob breaking into his house and destroying its contents in 1791. Three years later he moved to America where he was well-received. For 10 points, identify this Presbyterian minister and scientist whose work in the chemistry of gases made him one of the discoverers of oxygen.

Answer: Joseph Priestley

16. Born in Huntingdon into a non-noble family, his defeat of Prince Rupert at Marston Moor made him extremely influential, and by 1649 his demands for the execution of King Charles I gained support. For 10 points, name this man who from 1653 to 1658 served as Lord Protector of England.

Answer: Oliver Cromwell

17. It is dependent upon the relative proportions of branched-chain and straight-chain hydrocarbons, and it measures the tendency to preignite. 2,2,4-trimethylpentane is assigned a value of 100, while pure heptane is given a value of 0. For 10 points, name this scale used for rating the performance of petroleum fuels.

Answer: octane

18. Born in 1899 in Andalusia, he was shot and killed during the Spanish Civil War. His first book Impressions and Landscapes was published in 1918. During his short life he wrote numerous works including the poem Lament for the Death of a Bullfighter and the tragedy Blood Wedding. For 10 points, name this Spanish poet and dramatist.

Answer: Federico Garcia-Lorca

19. Built in 1599, this two-story structure could accommodate up to 2500 people. It remained popular for fourteen years until it burned to the ground during a performance of King Henry VIII. For 10 points, name this playhouse made famous by hosting the first performances of several of William Shakespeare's plays.

Answer: Globe Theatre

20. A third cousin of Thomas Jefferson, he fought in the Revolutionary War and condemned the Alien and Sedition Acts. He refused several government appointments, including attorney general, ambassador to France, and associate justice of the Supreme Court. He served briefly as secretary of state to John Adams before his appointment to the position of Chief Justice, where he served for 35 years presiding over many landmark cases. For 10 points, name this man at whose funeral the Liberty Bell became cracked.

Answer: John Marshall

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1. Of course, you know that George Washington was born in 1732. Answer these questions about other events of 1732. (10 each)

1. In 1732 Genoa regained control of what Mediterranean island, currently a possession of France?

Answer: Corsica

2. 1732 also saw the publication of the first of 25 issues of this annual work by Benjamin Franklin.

Answer: Poor Richard's Almanac

3. "The Minute Philosopher" was written by this Irish empiricist bishop.

Answer: George Berkeley

2. For 10 points each, identify the American authors who wrote the following "Songs".

1. The poem Song of Myself Answer: Walt Whitman

2. The novel The Song of the Lark Answer: Willa Cather

3. The poem The Song of the Chattahoochee Answer: Sidney Lanier

3. You probably remember who won every presidential election, but do you know who came in second and third? Given an election year, name the place and show candidates for 5 points each.

1. 1912 Answer: Theodore Roosevelt and Taft

2. 1968 Answer: Humphrey and George Wallace

3. 1856 Answer: Freemont and Fillmore

4. How well do you know heavenly bodies? For 10 points each, identify these moons. (10 each)

1. This third largest moon of Jupiter is the most volcanically active body in the solar system, spewing sulfur dioxide continuously.

Answer: Io

2. It may be the coldest body in the solar system; it has a thin atmosphere of nitrogen and hydrocarbons, and it has a retrograde orbit around Neptune.

Answer: Triton

3. In 1978 James Christy discovered this moon which is large relative to its planet than any other.

Answer: Charon

5. Name the founders of the following religious movements for 10 points each.

a. Seventh Day Adventists Answer: William Miller

b. Jehovah's Witnesses Answer: Charles Russell

c. Christian Science Answer: Mary Baker Eddy

6. Consider the ellipse x^2 over 25 plus y^2 over 9 equals 1.

Answer these questions about it for 10 points each.

1. What is its area in terms of pi? Answer: 15 pi

b. What are the coordinates of the two foci? Answer: (4,0) and (-4,0)

c. What is its eccentricity? Answer: 4/5 or .8

7. Identify these mythological figures on a 10/5 basis.

a. 10 - He was the son of Zeus and Danae. 5 - He is known for slaying the Gorgon Medusa.

Answer: Perseus

b. 10 - He was the son of Laius and Jocasta. 5 - He later killed Laius and married Jocasta.

Answer: Oedipus

c. 10 - He was the son of Zeus and Alcmene. 5 - He was forced to perform twelve arduous labors.

Answer: Heracles or Hercules

8. Given an English monarch, name his or her successor for 10 points each.

1. Aethelred I Answer: Alfred the Great

2. John Answer: Henry III

3. Edward the Confessor Answer: Harold II or Harold Godwinson

9. The character Antonio appears in five of the plays of William Shakespeare. Given a brief description of an Antonio in one of the bard's plays, identify the play in which he appears.
- In this play, Antonio is the brother of Leonato who flirts with Ursula.
Answer: Much Ado About Nothing
 - In this play, he is the friend of the spendthrift Bassanio.
Answer: Merchant of Venice
 - In this play, Antonio rescues Sebastian from a shipwreck.
Answer: Twelfth Night
10. Name these American Revolution battles for 10 points each.
- On May 10, 1775 this British fort was captured without a shot being fired by American troops under Ethan Allen and Benedict Arnold.
Answer: Ticonderoga
 - On June 17, 1775 General Howe led 2000 redcoats against a well-defended American post on the Charles River; the British won the battle but took heavy casualties.
Answer: Bunker Hill
 - On December 26, 1776 Washington crossed the Delaware and routed the Hessian forces in this New Jersey battle. Answer: Trenton
11. For 5 points each, identify these seemingly unrelated things.
- This constellation includes the M42, or "Great Nebula" as well as the stars Rigel and Betelgeuse.
Answer: Orion
 - In geology, this term refers to the rock in which a crystal or fossil is embedded; in zoology, it's the intercellular component of tissue; in math, it's a rectangular array of numbers.
Answer: Matrix
 - This word originally referred to a member of an Indian cult that worshipped Kali and committed ritual murders; it now means any brute or rogue.
Answer: Thug
 - Once common across western North America, these carnivorous mammals have recently been re-introduced into Yellowstone National Park.
Answer: gray Wolf
 - Probably born in Iceland, this man is credited with discovering Vinland 500 years before Columbus set sail.
Answer: Leif Ericsson
 - With a displacement of 71,000 tons, this Yamato-class battleship built in 1942 was one of the largest warships ever.
Answer: Musashi
12. Give the eponym given its anecdote (3 parts, 10 pts. each):
- A close-fitting garment for the torso worn by dancers; after a 19th century French gymnast
Answer: Leotard
 - To delete written matter considered indelicate; after a British editor of an expurgated 1825 volume of Shakespeare
Answer: Bowlerize
 - An outline image; after the 1757 Fr. finance minister who advocated buying paper portraits instead of painted miniatures Answer: Silhouette
13. 30-20-10 Name this playwright from works.
- Rodogune and Heraclius
 - Polyeucte and Atilla
 - This founder of French tragedy is best known for Le Cid.
Answer: Pierre Corneille
14. A recent study shows that only 10% of average American high school students can locate the Pacific Ocean on a globe. This is not good, since the average blind gorilla has a 28% chance of finding it. Let's see if your knowledge of strange geographic facts is above average (10 points each)
- Name the largest country that borders only one other country.
Answer: Canada
 - The most densely populated independent nation, it's a tiny principality on the Mediterranean Sea.
Answer: Monaco
 - Originally called Van Dieman's Land, this island has its capital at Hobart.

Answer: Tasmania

15. 30-20-10 Identify this famous composer from works.

1. "The Harmonius Blacksmith"
2. The operas Xerxes and Rinaldo
3. Fireworks Music

Answer: George Handel

16. Give the common names of these physics laws for 10 pts each.

a. Every action has an equal and opposite reaction.

Answer: Newton's Third Law

b. All planets move in elliptical orbits with the sun at one focus.

Answer: Kepler's First Law

c. It is impossible to construct a device that operates in a cycle and produces no other effect than the production of work and exchange of heat with a single reservoir.

Answer: Second Law of Thermodynamics

17. 30-20-10 Name this artist from works.

1. "Portrait of Pope Innocent X"

2. "The Forge of Vulcan"

3. "The Surrender of Breda"

Answer: Diego Velasquez

18. (30 points) Identify the American authors who wrote poems featuring the following persons.

1. Hugh Selwyn Mauberley Answer: Ezra Pound

2. old Eben Flood Answer: Edwin Arlington Robinson

3. Barbara Frietchie Answer: J.G. Whittier

19. 30-20-10 Identify this nation.

1. It shares its name with an exceptionally vigorous West African state that existed in southern Nigeria from the 13th to 19th centuries. It is particularly famous for its many brass sculptures which its artists created by thecire perdue or lost wax process.

2. It is bordered by Nigeria, Niger, Burkina Faso and Togo.

3. From 1960 to 1975 it was known as the Kingdom of Dahomey.

Answer: Benin

20. Show off your knowledge of marine biology by naming the phylum that each of these animals belongs to (5 each)

1. Sea Urchin Answer: Echinodermata

2. Coral Answer: Coelenterata or Cnidaria

3. Leech Answer: Annelida

4. Squid Answer: Mollusca

5. Horseshoe crab Answer: Arthropoda

f. Sea Squirt Answer: Chordata