

2000 Mad City Masters

Tossups by An Agreement with Death and a Covenant with Reehl: Mark Zimmer, Steve Watchorn, Eric Reehl (with a couple by Robert Whaples)

1. Important in the production of morphine, cortisone (CORE-tih-zone) and other steroids, it was explained in 1928 in a series of experiments resulting in a paper on reactions involving quinones (KWIE-nones). In it, a substance containing two alternate carbon-carbon double bonds is linked with a substance containing a pair of doubly or triply bonded carbon atoms. For 10 points—name this reaction for the production of ring compounds, named for one of its principal reactants or, alternately, for the two German chemists who won the 1950 Nobel Prize for discovering it.

Answer: _diene (DIE-een) synthesis_ or the _Diels (DEE-els)-Alder_ reaction

2. He exercised by riding a tricycle through St. John's Park or through the park of his estate at Hatfield. Elected to the House of Commons in 1853, he joined the cabinet in 1874, when he became Secretary of State for India. In 1878, he became Foreign Secretary, a position he continued to hold through his 3 terms as Prime Minister, which began in 1886. For 10 points— name this British Prime Minister, who was the last to lead his party from the House of Lords.

Answer: Lord Salisbury (Full name: Salisbury, Robert Arthur Talbot Gascoyne-Cecil, 3rd marquess of, Earl Of Salisbury, Viscount Cranborne, Baron Cecil Of Essendon)

3. This outlet of the Georges and Cooks rivers is roughly circular, about 5 miles across, and 1 mile wide at its mouth between the La Perouse and Kurnell peninsulas. Captain James Cook named it Stingray Harbour, but later changed the name because of the variety of new plants found there by his expedition's naturalist, Joseph Banks. For 10 points—name this bay from which the Australian convict colony took its name.

Answer: Botany Bay

4. His early acting jobs included lunchmeat commercials in his home country, and he failed as a talk show host in the U.S. A prominent member of the Republican Party, he participated in an \$80 million film which consisted entirely of his most famous character doing a standup comedy routine. For 10 points—name this Springfield denizen, who subsidizes serious dramas such as *Help, My Son Is a Nerd!* by portraying the action hero McBain.

Answer: Ranier _Wolfcastle_ (prompt on "McBain" before it is given – the talk show was actually called *Up Late with McBain*)

5. Based on actual events that occurred on and around the ship *Lucy Ann*, this novel tells of an unsuccessful mutiny on a whaling ship in Tahiti that lands many of the mutineers in jail. Escape is easy for the novel's narrator, who wanders the island, observing life, with Long Ghost, who used to be the ship's doctor. For 10 points—name this second novel by Herman Melville.

Answer: _Omoo_ : A Narrative of Adventure in the South Seas

6. Consisting of a prologue and four acts, it deals with Settlement and Chavez, who are fictional, as well as Teresa of Avila and Ignatius Loyola. Its words were completed in 1927, seven years before the score and first performance. For 10 points—name this opera, with music by Virgil Thomson and libretto by Gertrude Stein, concerning holy people.

Answer: _Four Saints in Three Acts_

7. This French mathematician was the first to use the probability integral in which the integrand is the exponential of a negative quadratic. He also originated the misnamed Stirling's formula, and his works *The Doctrines of Chance* and *Analytical Miscellany* did much to advance the study of probability. For 10 points—name this 17th and 18th-century mathematician, whose name is given to the formula which states that the quantity "cosine of x + i-sine of x" raised to the nth power equals "cosine of n-x plus i-sine of n-x".

Answer: Abraham _de Moivre_ (day MWAH-vruh)

8. He intended to try to recover East Prussia, and thus entered into alliances with France and Sweden against Frederick William of Brandenburg. However, his plans were disrupted when the Ottomans, allied with the Hungarians, invaded Austria. Joining Leopold I, his armies raised the siege of Vienna, and he pursued the invaders into Hungary. For 10 points—who was this king, whose death in 1696 marked the end of Polish independence?

Answer: Jan _Sobieski_ or _John III_

9. This man has produced a Finnish version of *Cat on a Hot Tin Roof*, and last year ran for a spot in the European Parliament. More important to his current job, though, were his 30 years of coaching experience in Europe and his years as an NHL assistant coach at Winnipeg and Toronto. In late May, he was confirmed as the first European-born head coach in the NHL in 50 years. For 10 points—name this man, who hopes to end the longest Stanley

Cup drought in the league as the new coach of the Chicago Blackhawks.

Answer: Alpo _Suhonen_

10. The author of this work outlines his vision of two societies—one for the elect and one for the damned—with their civilizations being the symbolic embodiment of the two spiritual powers (faith and unbelief) that have battled through all history. Containing the author's famous theological interpretation of history from the creation projected through the Second Coming, it was written in response to those who said the 410 sack of Rome was caused by the abolition of pagan worship. For 10 points—name this influential treatise by St. Augustine of Hippo.

Answer: The _City of God_ or _De civitate Dei_

11. The first two novels of this series, which is named for two of its principal characters, were published under the pseudonym Alcofribas Nasier. Besides the title characters, another principal is the cunning Panurge (pan-URJ), whose questions eventually lead a group to the Oracle of the Holy Bottle in Cathay. In the fifth novel (of doubtful authenticity), the Oracle answers his queries with the single word "Drink!" For 10 points—name this series, containing an essential exploration of French Renaissance ideals, by François Rabelais (fran-SWAH RA-beh-lay).

Answer: _Gargantua and Pantagruel_ (prompt on partial answer)

12. Lying in the Itchen valley, it was the seat of St. Swithun's Cathedral originally built in 648. Its current cathedral, begun in 1079, is the longest in England, and is the burial place of Jane Austen and Izaak Walton, as well as many of the ancient kings of England, including Canute and Alfred the Great. For 10 points—name this city in Hampshire only twelve miles from Southampton, which was the capital of England and rival London until it was burned during King Stephen's reign.

Answer: Winchester

13. The half-wave variety of this device only uses one polarity of the alternating current, while the full-wave variety uses both polarities to create a continuous output. A diode works as this because electrons can be drawn from the cathode to the plate but not from the plate to the cathode. P-n junctions work because of the "cliff" created by mismatched Fermi levels, which allows easy electron passage only one way. For 10 points—name this kind of device, which converts alternating current into direct current.

Answer: _rectifier_

14. This man first gained renown as a writer with the 1605 premiere of *The Relapse, or Virtue in Danger*, a sequel to Colley Cibber's *Love's Last Shift*. Other plays of his include *The Provok'd Wife*, *The Country House* and *The Confederacy*. He took up another field in 1702 when he designed Castle Howard, Yorkshire. Later, he would design the Queen's Theatre, or Opera House (which was ruined because of bad acoustics), working often with Nicholas Hawksmoor, Christopher Wren's clerk. For 10 points—name this architect, who helped bring English Baroque to its peak with such buildings as Blenheim Castle.

Answer: Sir John _Vanbrugh_ (van-BRUH)

15. A popular craze at the turn of the 20th century, it consisted of couples who formed two concentric squares, with men on the inside, and strutted around their edges to a lively tune. Couples were eliminated one by one by judges, who evaluated the contestants based on the elegant bearing of the men, the grace of the women and the inventiveness of the dance. The last remaining couple was awarded the edible prize that gave the dance its name. For 10 points—name this type of dance, also a description of what this question might have been if you immediately knew the answer.

Answer: _cakewalk_

16. Developed by Francis Y. Edgeworth, it is typically drawn from left to right and convex to the origin. It shows the various combinations of two things that yield satisfaction, or utility, to a consumer. For 10 points—name this common economics graph, drawn so that if the consumer were given his choice between any two points, the combination of goods at those points would be equally desirable to him.

Answer: the _indifference_ curve or graph

17. This phenomenon can be caused by cold air descending from slopes, such as with the "bora" on the Adriatic coast of Italy. The "norther" in North America is a type caused by moving cold fronts. It is defined as a sudden wind speed increase of 8 meters per second, or more, to a peak of 11 meters per second, or more, for a minute, or longer. For 10 points—name this weather phenomenon, which often appears in a line preceding severe thunderstorms.

Answer: _squall_

18. He managed Hiram Johnson's unsuccessful campaign to win the Republican nomination for President in 1924.

However, in the 1932 elections he supported Roosevelt and, because Roosevelt was seeking a progressive Republican for his Cabinet, became head of the Public Works Administration and Secretary of the Interior. For 10 points—name this politician who was the longest-serving cabinet officer in U.S. history.

Answer: Harold (LeClaire) Ickes

19. Though there is the right number of available women—played by, among others, Karen Black and Susan Anspach—the title of this film actually refers to a collection of piano lessons. That is appropriate, as Bobby DuPree is a piano prodigy-turned-oil worker who returns to his family's island home to come to terms with his siblings and his dying father. For 10 points—name this 1970 Bob Rafelson (RAY-fel-son) film, featuring the famous chicken salad sandwich scene involving lead actor Jack Nicholson.

Answer: Five Easy Pieces

20. The publication of his "Chelkash" in a leading St. Petersburg journal heralded the close of this author's "tramp" period and his rise to becoming the first president of the Union of Soviet Writers. This author of the trilogy *My Childhood*, *In the World* and *My Universities* criticized Lenin's regime after 1917 in his paper *Novaya Zhizn*, and died mysteriously under state medical care in 1936. His hometown of Nizhny-Novgorod (NISH-nee NAWV-gore-rod) was named for him from 1932 to 1990, though his miserable childhood there led this author of *Mother* to take a pseudonym meaning "bitter." For 10 points—name this prominent Soviet writer, who also penned the short story "Twenty-six Men and a Girl" and the play *The Lower Depths*.

Answer: Maxim Gorky (or Aleksey Maksimovich Peshkov)

21. It was vetoed by Harry Truman, but Congress passed it over his veto anyway. It precluded any alien who has belonged to a totalitarian organization from entering the U.S. It also limited Communists from holding sensitive positions during emergencies. For 10 points—what is this Act, most famous for requiring all Communists to register with the government?

Answer: McCarran Act

22. The announcement that American Renee Zellweger (ZEL-wehg-er) will play this very British character in an upcoming film resulted in an uproar, a testament to this character's influence. She deals with the "emotional fuckwittage" of her boss' boss, Daniel, and others with the help of her ever-present friends Jude, Shazzer and Tom. She also keeps careful daily track of cigarettes smoked, pounds gained or lost, and alcohol units consumed. For 10 points—name this character, back on "the Edge of Reason" in a new novel by Helen Fielding, who authored her 1998 "Diary."

Answer: Bridget Jones (prompt on partial answer)

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Bonuses by An Agreement with Death and a Covenant with Reehl: Mark Zimmer, Steve Watchorn, Eric Reehl (with a couple by Robert Whaples)

1. For 10 points each—name these political associates of President Franklin Roosevelt:

A. This journalist befriended New York state senator Roosevelt in 1911 and became his political mentor. He successfully managed Roosevelt's gubernatorial and presidential campaigns.

Answer: Louis Howe

B. This former New York state industrial commissioner became FDR's Secretary of Labor in 1933. She was America's first female cabinet member.

Answer: Frances Perkins

C. This former Tennessee Congressman served as FDR's Secretary of State from 1933 to 1944 and received the Nobel Peace Prize in 1945.

Answer: Cordell Hull

2. For 10 points each—identify the Hemingway novel from its hero.

A. Jake Barnes

Answer: The Sun Also Rises

B. Robert Jordan

Answer: For Whom the Bell Tolls

C. Harry Morgan

Answer: To Have and Have Not

3. Answer the following about blood groups and their categorization, for 10 points each:

A. Blood groups are classified according to the presence of these bodies – which can adhere to lymphocytes (LIMP-foe-sites) – on the surface of red blood cells.

Answer: antigen_s (accept immunogen_s, which are antigens that specifically provoke an immune response)

B. Both the A-B-O and R-h blood group systems were discovered by this native Austrian, the winner of the 1930 Nobel Prize for Medicine

Answer: Karl Landsteiner

C. A transfusion of incompatible blood may cause this result, defined as the destruction of red blood cells so that the contained hemoglobin (HEE-moe-gloe-bin) is freed into the surrounding medium.

Answer: hemolysis (he-MAHL-ih-sis)

4. Identify the performers of the following songs of desire, for 10 points each:

A. I Want a New Drug

Answer: Huey Lewis and the News (prompt on partial answer)

B. I Wanna Be Sedated

Answer: The Ramones

C. I Want Candy

Answer: Bow Wow Wow

5. Identify the opera from the named aria for 10; for 5 if you need the composer.

A. (10) Un bel di

(5) Puccini

Answer: Madame Butterfly or Madama Butterfly

B. (10) Il dolce suono mi colpì di sua voce

(5) Donizetti

Answer: Lucia di Lammermoor

C. (10) Vecchia Zimarra

(5) Puccini

Answer: La Bohème

6. Note the following optical system: an object, which is 20 centimeters away from a biconvex thin lens with a focal length of plus-10 centimeters. Answer the following questions about this system, for 10 points each:

A. The image of this object is formed on the opposite side of the lens. How far, in centimeters, from the lens is the image? You have 10 seconds.

Answer: 20 centimeters

B. What is the absolute value of the magnification factor of the image?

Answer: 1 (accept equivalent answers such as "same size") [absolute magnification is equal to the image distance divided by the object distance]

C. The actual value of the magnification factor is negative-one. What does the negative sign indicate?

Answer: that the image is inverted (accept upside down, flipped or reasonable equivalents)

7. Name the Korean Dynasties, for 10 points each.

A. The first Korean dynasty unified much of what is now North and South Korea and lasted from 662 to 935.

- Answer: Silla dynasty
- B. The second Korean dynasty, known for its papermaking and printing with moveable type, lasted from 935 to 1392.
Answer: Koryo dynasty
- C. The third Korean dynasty, during which the capital was moved to Seoul, lasted from 1392 until 1910.
Answer: Choson or Yi dynasty
8. For 10 points each—identify the Shakespeare plays that feature the following lines:
A. "I dare do all that may become a man; Who dares do more is none" Answer: Macbeth
B. "Under the greenwood tree, Who loves to lie with me" Answer: As You Like It
C. "There's small choice in rotten apples." Answer: Taming of the Shrew
9. Identify the original films to which the following films were sequels or continuations, for 10 points each:
A. *The Bells of St. Mary's* (from 1945) Answer: Going My Way
B. *Oliver's Story* Answer: Love Story
C. *The Evening Star* (from 1996) Answer: Terms of Endearment
10. Identify these poetic rhyme schemes, for 10 points each:
A. An interlocking series of three line stanzas having the rhyme scheme aba bcb cdc, etc. It was used by Dante in the *Divine Comedy*.
Answer: Terza rima
B. A nine line stanza in which the first eight lines are iambic pentameter and the ninth lines is iambic hexameter. The rhyme scheme is ababbcbcc.
Answer: Spenserian stanza
C. An eight line iambic pentameter with rhyme scheme abababcc. It was used by Byron in *Don Juan*.
Answer: Octava rima
11. Answer these questions about the War of the Austrian Succession, for 10 points each:
A. Because of Frederick the Great's victories over the Austrians including the Battle of Mollwitz, Prussia gained control of what former Austrian province?
Answer: Silesia
B. What was the name of the American phase of the war in which France and Great Britain fought each other and the only important victory was the New Englanders' capture of Louisbourg, Cape Breton Island?
Answer: King George's War
C. The war began as a dispute over who would succeed the Austrian Emperor Charles VII. Who did succeed him?
Answer: Maria Theresa
12. For 10 points each—name the countries, all of which were formerly members of the USSR.
A. Most of the country lies between the Dniester and Prut rivers. Its people speak a language almost identical with Romanian.
Answer: Moldova
B. This country includes the Betpaqkala, Muyunkum, Kyzylkum, Greater Barsuki, and Aral Karakum deserts. Since gaining independence from the Soviet Union, the country has begun to exploit its large oil reserves.
Answer: Kazakstan
C. This mountainous country in the Caucasus Mountains borders the Black Sea. Its current President is former Soviet Foreign Minister Eduard Shevardnadze.
Answer: Georgia
13. The names of WNBA franchises often have a close relationship to the name of the NBA franchise in the same city. Given the name of a WNBA franchise in a city that also has an NBA team, give the NBA team's name, for 10 points each. DO NOT give the name of the city.
A. Mystics Answer: Wizards (Washington, D.C.)
B. Shock Answer: Pistons (Detroit)
C. Miracle Answer: Magic (Orlando)
14. Name these battles of the American Revolution, for 10 points each:
A. In August 1777, American forces led by Nicholas Herkimer defeated British troops led by Barry St. Leger near Lake Oswego in Central New York.
Answer: Battle of Oriskany
B. In September 1777, William Howe's British and Hessian troops defeated George Washington's American army.

Howe then occupied Philadelphia unopposed.

Answer: Battle of Brandywine

C. In October 1781, Lord Cornwallis' British army surrenders to a American and French army under Washington and the Count de Rochambeau.

Answer: Battle of Yorktown

15. Answer the following related to the biblical Book of Lamentations, for the stated number of points:

A. For 5 points—to what prophet is Lamentations traditionally attributed?

Answer: Jeremiah

B. For 10 points—the Lamentations are a response to Jerusalem's conquest by what civilization?

Answer: Babylon or Babylonian

C. For 15 points—the first four chapters of Lamentations each consist of 22 short stanzas. What specialized verse form, connected with the Hebrew alphabet, are these first four chapters when written in Hebrew?

Answer: Acrostic

16. Answer the following related to stellar astronomy, for the stated number of points.

A. For 5 points each—identify the quantities graphed on each axis of a standard Hertzsprung-Russell Diagram.

Answer: absolute magnitude (do not accept "apparent magnitude"; prompt on "magnitude")
equivalent spectral class (prompt on any variation of "temperature")

B. For 10 points—stars with a surface temperature at or greater than about 20,000 Kelvin are normally surrounded by this volume of gas ionized by the star's radiation; it's named for a Swedish-born astrophysicist.

Answer: Stromgren sphere

C. For 10 points—it is theorized that some very massive stars, which collapsed to form black holes, are the power source for the active nuclei (NOO-clee-eye) at the centers of these types of galaxies, which are strong sources of infrared, radio and X-ray emissions.

Answer: Seyfert (SEE-fert) Galaxies

17. 30-20-10. Identify the American poet from the first lines of poems.

A. If the red slayer thinks he slays, or if the slain think he is slain

B. Burly, dozing humble-bee, where thou art is clime for me

C. By the rude bridge that arched the flood, their flag to April's breeze unfurled

Answer: Ralph Waldo Emerson

18. For 10 points each—name the television series which feature or featured the following organizations:

A. The Office of Scientific Intelligence, or OSI – either of two answers is acceptable

Answer: The Six Million Dollar Man or The Bionic Woman

B. The Foundation for Law and Government, or FLAG – either of two answers is acceptable

Answer: Knight Rider or Team Knight Rider

C. The Violent Crimes Task Force, or VCTF

Answer: Profiler

19. Portmanteau bonus time, featuring works in the canon of Sherlock Holmes. For 10 points each—marry the Sherlockian title with the movie and give me the resulting single phrase. For example, the Holmes story about a missing race horse, and the 1960 Doris Wishman movie featuring a famous New Orleans stripper would be "The Adventure of Silver Blaze Starr Goes Nudist."

A. The second Sherlock Holmes novel, and the 1994 Michael Newell comedy starring Hugh Grant

Answer: The Sign of Four Weddings and a Funeral (Note: Sign of THE Four is wrong)

B: The first Sherlock Holmes novel, and the 1945 Fritz Lang film noir starring Edward G. Robinson

Answer: A Study in Scarlet Street

C: The third Holmes novel, and the 1988 cartoon satire of a famous Sergio Leone film, starring Hanna-Barbera's sky blue dog

Answer: The Good, the Bad and Huckleberry Hound of the Baskervilles

20. 30-20-10. Name the American urbanist and social critic.

A. While working as an editor for *Fortune* magazine in 1958, he edited the book *The Exploding Metropolis*, which examined cities and urban sprawl.

B. After leaving *Fortune*, he became a professor at Hunter College where he studied cities, urban planning and the use of open spaces. His findings were published in the books *The Last Landscape*, *Cluster Development*, and *Social Life of Small Urban Spaces*.

C. He is best known for his 1956 book *The Organization Man*, which analyzed the corporate and social world of the postwar era.

Answer: William Whyte

21. For 10 points each—identify the artists of these works, all painted in 1859:

- A. *Macbeth* Answer: Jean Baptiste Camille Corot
B. *The Angelus* Answer: Jean-François Millet
C. *At the Piano* Answer: James MacNeill Whistler

22. Identify the following groups of laws related to set theory, for 10 points each:

A. This is the name now given to the group of axioms, first codified in 1908, that represent the first axiomatic formulation of set theory, though Thoralf Skolem was also involved in their modification and refinement.

Answer: The Zermelo-Fraenkel or ZF axioms (named for Ernst Zermelo and Abraham Fraenkel)

B. This formulation, named in full for the three mathematicians who contributed significantly to it, took the notion of the function, rather than the set, as primitive.

Answer: The Neumann (NOY-man)-Bernays-Gödel (GER-del) or NBG axioms

C. Gödel's first incompleteness theorem dealt with axiomatizable (AX-ee-oh-ma-TIZE-ah-bul) theories sufficient to derive these postulates, which provide a foundation for mathematics and are named for a 19th- and 20th-century Italian mathematician and logician.

Answer: The Peano (pay-AH-no) postulates