

1) A street is named after it in Pittsburgh, where Jim Delligatti created it in 1967; it was cleared for national distribution the following year. The crown, the club, and the heel are the proper terms for the three parts of the last item in the famous formula, the sesame seed bun. To date over 14 billion have been sold. FTP name this ubiquitous double-decker sandwich.

Answer: the **Big Mac**

2) Its structure is believed to consist of a relatively dense core that lies near the ecliptic plane and gradually replenishes the outer boundaries, creating a steady state. It is the birthplace and reservoir of the long-period comets. Inferred by the research of a Dutch astronomer in 1950, more modern research has only confirmed its existence. FTP identify this region of interstellar objects that extends from the planetary boundary of our solar system to about 3 light years from the sun.

Answer: **Oort Cloud**

3) #106 begins, "When in the chronicle of wasted time..." #71 starts, "No longer mourn for me when I am dead." #130 opens "My mistress' eyes are nothing like the sun." And #18 starts, "Shall I compare thee to a summer's day?" These are among 154 of, FTP, what writings first published as a collection in 1609?

Answer: Shakespeare's sonnets [accept equivalents; prompt on Shakespeare or sonnets]

4) Be careful who you badmouth This man had publicly criticized Marc Antony, so before Antony fell from favor with Octavian, he persuaded Octavian to execute this Senator. It was a sad ending for a man who'd exposed the Catiline conspiracy. FTP name this Roman politician and orator, whose works include De Amicitia, Philippics, and of course Orations Against the Catiline.

Answer: **Cicero**

5) Researchers at Berkeley have made a very small transistor. This may not seem that impressive until you contemplate that the transistor is the size of one molecule – one tiny, soccer ball shaped molecule. FTP, give the name of this molecule of 60 carbon atoms, named after the inventor of the geodesic dome.

Answer: **uckyballs** or Buckminsterfullerene

6) He was born on August 30, 1943 in Philadelphia and grew up with a sadistic father, a mother hooked on amphetamines, and a brother who grew more and more insane. He began to draw comics to appease his brother and quickly mastered the style of Walt Disney. He started drawing professionally in 1962 but his career didn't truly start until 1965 when he took a vial of acid. FTP, name this underground artist and "Breughel of the 20th Century" who made "Mr. Natural" and "Fritz the Cat" famous.

Answer: **R. Crumb** (prompt on just "Crumb", but take "Robert Crumb")

7) This man developed his painting skills while working with his father decorating houses. In 1900 he moved to Paris, where he studied the work of many Fauve artists. He met Picasso, and together they developed Cubism. For ten points, name this artist, who is known for such paintings as "Still Life with a Violin" and "Man With a Guitar."

Answer: Georges **Braque**

8) It was the most famous thing ever built by the firm of Blohm and Voss. Admiral Leutjens, famous for sinking 22 British merchant ships with the battle cruisers Scharnhorst and the Gneisenau, was given its command. It sank the HMS Hood with a single 15" shell, but was finally defeated by the Rodney, King George V, and the Norfolk. FTP name this much-feared mammoth battleship, which was only afloat for 7 days.

Answer: the **Bismarck**

9) This building measures 45 feet high, 33 feet wide, and 50 feet long. According to tradition, it was originally built by Abraham and his son Ishmael and was used to house idols and other Arab pagan objects before Muslim forces came and cleansed it of these things. The structure itself is actually a reconstruction of the original, but is constructed of the same black granite as the first. FTP, name this "House of Allah" in Mecca.

Answer: The **Kaaba**.

10) Cecil. Kent. Frederick. Wicomico [wick-COMic-co.] Calvert. Queen Annes. Anne Arundel. Prince Georges. These are among the 23 counties of a state whose motto translates, "Manly deeds, womanly words." FTP name this state, whose other counties include Carroll, Montgomery, and Baltimore.

Answer: **Maryland**

11) Originally from Fort Dodge, IA, he showed a proficiency in writing by junior high and was working for Readers' Digest when WWII began. During the war, however, he was a communications officer on a Navy cargo ship writing humorous vignettes in his journal to keep himself sane. He shipped this journal to his cousin Wallace Stegner, who had them published, and they became wildly successful. They had become a Broadway play in 1948, a movie in 1955, and another movie in 1963, but he missed out on most of the success, having drowned in 9 inches of water in 1949. FTP, identify this author of "Mister Roberts."

Answer: **Thomas Heggen**

12) Born in Sweden in 1814, this man was a physicist and astronomer, and is widely credited with founding the science of spectroscopy, or the study of the electromagnetic spectrum. He developed the science by studying the solar spectrum and observing that there is hydrogen in the sun's atmosphere. For ten points, give this man's last name, who gave his name to the unit of length equal to one hundred millionth of a centimeter.

Answer: **Anders Jonas Ångström**

13) It was rendered necessary when Rep. Tallmadge of New York proposed an amendment to a seemingly-routine bill admitting another state to the Union. Tallmadge's amendment would have prohibited slavery in the new state, even though it was already well-established there. House Speaker Henry Clay finessed the issue by tying the admission of Maine as a free state to the measure and also banning slavery in the remainder of the Louisiana Territory north of 36 degrees 30 minutes latitude. FTP name this 1820 Congressional action.

Answer: **the Missouri Compromise**

14) This band's first album, Days of Future Passed, was released in 1966 and is one of the first concept albums. Although recorded with a symphony orchestra, the band decided on later albums that they would only record songs that they could perform live with just their own instruments. With around thirty albums and compilations released, the most recent being Strange Times in 1999, they obviously still have a lot to offer the music industry. FTP name this band, whose songs include "The Story in Your Eyes," "Trip Inside Your Mind," "In Your Wildest Dreams," "Tuesday Afternoon," and "Nights in White Satin."

Answer: **The Moody Blues**

15) He edited the journal Conservative Judaism and was editor-in-chief of the Jewish Publication Society. He wrote a nonfiction history of the Jews called Wanderings as well as such novels as *I Am the Clay*, *The Tree of Here*, and *The Book of Lights*. FTP name this author, who explored the relationship between Hasidic and more secular Jews in *My Name Is Asher Lev* and *The Chosen*.

Answer: **Chaim Potok**

16) The Greeks did not use them explicitly, but in the fifth century BC, Eudoxus used the method of exhaustion to prove the familiar formula for the area of a circle, thus indirectly using the same concept used today. The Greek method of exhaustion was to inscribe a polygon in a figure such as the circle, circumscribe a polygon about the figure, and then let the number of sides of the polygon increase. As the number of sides increases, the area of the circle is approximated more closely. Another example can be found in asymptotic relationships, such as  $y = 1/x^2$ , which approaches infinity as  $x$  approaches zero. FTP, identify this beautiful concept in mathematics that forms the basis of differential and integral calculus.

Answer: **limit**

17) The Voice of America and the Army Signal Corps came under the scrutiny of his committee. Among those he leveled accusations against were Owen Lattimore, Dean Acheson, and even George C. Marshall. He finally got a taste of his own medicine when a special Congressional committee held very visible hearings into the attempts of him and top aide Roy Cohn to get another of his aides special treatment from the Army. FTP name this Wisconsin Senator who rose and fell by making wild, unsubstantiated claims that the U.S. government was filled with closet Communists.

Answer: **Joseph R. McCarthy**

18) Outside the walls of Mycenae, she mourns the death of her father at the hands of her mother. She calls on her father's spirit when her sister warns her that their mother and the mother's new husband are planning to kill her. When her mother asks what sacrifice she must make to appease the gods, the title character reply that her brother will kill the mother and her new husband wife a sacrificial axe. At this moment, however, a messenger arrives with the news that the brother is dead and the mother regains composure. Later, another messenger arrives and tells the title character the her brother is indeed dead, but this messenger is her brother. The brother then kills both her mother and the mother's husband. As the brother is proclaimed king, the title character dies from the joy of the triumph. FTP, name this opera by Richard Strauss.

Answer: **Elektra**

19) May 2001 was a good month for both Brood XXII (22), in Louisiana and Mississippi, and Brood VII (7), in New York. Brood 22 is of the tredecim type, while Brood 7 is of the classic septendecim variety. They're of a different genus than the Tibicen or "dog day" variety, which explains why we see some in smaller amounts every year. And properly speaking, they are not locusts, though often confused for them because of their periodic swarms and their noise levels. FTP name this insect, the 17-year varieties of which have the longest lifespan of any insect.

Answer: **cicada**

20) It includes a carnival, a palazzo, a thousand perceived injuries, some chains, some newly purchased sherry, and a bunch of bricks. First published in Godey's Lady's Book in 1846, it is told by Montessor, who seeks and gets his revenge on his nemesis Fortunato. FTP name this short story by Edgar Allan Poe.

Answer: **"The Cask of Amontillado"**

21) Popes Leo X, Clement VII, and Leo XI. The regent for France's Louis XIII. The queens of French kings Henry II and Henry IV. And the patrons of Brunelleschi, Donatello, Ghiberti, da Vinci, and the young Michelangelo. FTP name the Florentine family to which they all belonged.

Answer: **Medici**

22) When designing a computer game, it is necessary to transfer blocks of image data from one surface to another, i.e., place an image on a surface by storing pixel data in the surface's memory. For ten points, give this game design term.

Answer: **Blitting**

1) Time for an oldie but goodie. For 5 pts. each or 30 for all correct, give the order to which each mammal belongs:

- |                                  |         |                      |
|----------------------------------|---------|----------------------|
| a) Rabbit                        | Answer: | <b>Lagomorpha</b>    |
| a) Echidna                       | Answer: | <b>Monotremata</b>   |
| c) Donkey                        | Answer: | <b>Ungulata</b>      |
| a) Whale                         | Answer: | <b>Cetacea</b>       |
| a) Going last for once: Aardvark | Answer: | <b>Tubulidentata</b> |

2) Answer the following about cool computer games for ten points each.

a) The title character has been released from his prison, taken possession first of King Leoric and then his son Prince Albrecht, and becomes stronger with each passing moment. It is up to the game player to kill the demons and save Khanduras. Name this game from Blizzard Entertainment.

Answer: **Diablo**

b) As pilot Jake Logan, the player must take on different contracts for different megacorporations in different areas of the 26th century galaxy. Long distances are covered in a matter of seconds by using "jumpgates" made of the title particle. Name this game from NovaLogic.

Answer: **Tachyon**

c) After centuries of clan warfare, an ancient starship is discovered buried in the Great Desert, and inside is a stone carved with diagrams for hyperspace drive and a galactic map. The people of Kharak build a gigantic ship to search for the planet they came from. Name this Sierra game.

Answer: **Homeworld**

3) Third party movements turn up in American elections from time to time and occasionally even garner electoral votes. FTPE name these third place finishers:

a) Under the banner of the American Independent Party, this Alabama governor carried several Southern states in 1968 and may have taken enough traditionally Democratic votes to tip the election to Richard Nixon.

Answer: **George Corley Wallace** [do prompt on Wallace]

b) In 1924, as the standardbearer of the Progressive Party, this man carried his home state of Wisconsin.

Answer: **Robert LaFollette**

c) Thanks to a strong third party challenge, this man holds the dubious distinction of being the only incumbent President to finish 3<sup>rd</sup> in an election, carrying only two states for a whopping eight electoral votes.

Answer: **William Howard Taft**

4) Sigh, says an editor. I'll never escape them... **TRAVELS WITH CHARLIE**: OK, bear with me. This is a music question written while visiting the St. Louis Science Museum. FTSNOP name:

(5 pts.) The composer of "Tales from the Vienna Woods", one of the pieces playing in the big kaleidoscope

Answer: **Johann Strauss** the younger (don't require younger, but don't accept elder; do require Johann)

(15 pts.) The composer of "Valse Triste," another of the pieces playing in the big kaleidoscope

Answer: **Jean Sibelius**

(10 pts.) The artist whose video for "Virtual Insanity" not only won the 1997 MTV Music Video Award for Best Video, but also prompted Charlie to make comparisons to both a trick room in the museum and Eads 347, the classroom at NAQT Nationals with the incredibly low ceiling.

Answer: **Jamiroquai**

5) FTPE, name the constellation in which the given star is located

a) Betelgeuse Answer: **Orion**

b) Mimosa Answer: **Crux**

c) Aldebaran Answer: **Taurus**



- 6) Given a poem or poems, give the American author's MIDDLE name, 5-10-20-30:
- a) "Snow-Bound, Ichabod" Answer: **Greenleaf**
  - b) "Paul Revere's Ride" Answer: **Wadsworth**
  - c) "When the Frost Is On the Punkin" and "Little Orphan Annie" Answer: **Whitcomb**
  - d) "Casey at the Bat" Answer: **Lawrence**
- 7) Name the band from songs for ten points each.
- a) "Pardon Me," "Drive," "I Miss You," "Stellar" Answer: **Incubus**
  - b) "Hole In My Soul," "Livin' on the Edge," "Angle," "Just Push Play" Answer: **Aerosmith**
  - c) "Civil War," "Sweet Child O' Mine," "Paradise City" Answer: **Guns 'N' Roses**
- 8) Aerospace engineers define six different types of altitude. FTPE, name the following altitudes.
- a) This altitude is defined as the distance the craft is above sea level.  
Answer: **Geometric**
  - b) This altitude is defined as the craft's distance from the center of the earth.  
Answer: **Absolute**
  - c) This altitude assumes that the acceleration of gravity throughout the atmosphere is constant at its value at sea level. Answer: **Geopotential**
- 9) Stone walls do not a bonus make. Name the authors of the following works, 5-10-20-30:
- a) "To Althea from Prison" Answer: **Richard Lovelace**
  - b) *The Prisoner of Second Avenue* Answer: **Neil Simon**
  - c) *The Executioner's Song* Answer: **Norman Mailer**
  - d) *The Prisoner of Zenda* Answer: **Anthony Hope**
- 10) Answer these questions about the people of the Bible FTSNOP.
- a) 5pts. Who persecuted Jesus, was blinded by light on the road to Damascus, and later converted under a different name?  
Answer: **Saul** of Tarsus (reluctantly accept Paul)
  - b) 10 pts. The first son of Isaac, he was a red, hairy man that loved the outdoors.  
Answer: **Esau**
  - c) 5 pts each Identify the sons of Noah.  
Answer: **Shem, Ham, Japheth**
- 11) The Southern states played a much greater role in the American Revolution than most Yankee textbooks admit. Name these battles from the Carolinas FTPE:
- a) In this Oct. 1780 battle, the timely arrival of John Sevier and his "Overmountain Men" from Tennessee led to a surprise Colonial victory over Tories led by British commander Patrick Ferguson, who was mortally wounded.  
Answer: **Kings Mountain**
  - b) Daniel Morgan suckered Banastre Tarleton into a nasty trap to win this pivotal battle of January 1781.  
Answer: **Cowpens**
  - c) Technically the British won this March 1781 battle near Greensboro, NC, but their serious loss of manpower forces Cornwallis to withdraw from the Carolinas toward Yorktown, where... well, you know.  
Answer: **Guilford Courthouse**
- 12) Each of the following states has two schools in the Big Ten Conference. For 5 points each, give the team mascot name (e.g., Nittany Lions) for each of the two schools.
- a) Indiana Answer: **Hoosiers and Boilermakers**
  - b) Michigan Answer: **Spartans and Wolverines**
  - c) Illinois Answer: **Illini and Wildcats**

13) You will be given three acronyms, each describing a type of Random Access Memory, or RAM. Expand the acronyms for ten points apiece. (Reader: Accept the acronym "RAM" in place of the phrase "Random Access Memory").

Part 1: SRAM

Answer: **Static** Random Access Memory

Part 2: SDRAM

Answer: **Synchronous Dynamic** Random Access Memory

Part 3: DDR RAM

Answer: **Double Data Rate** Random Access Memory

14) Name these female American wordsmiths FTPE:

a) The critically acclaimed Southern author of *Black Mountain Breakdown*, *The Last Day the Dogbushes Bloomed*, and *Fair and Tender Ladies*

Answer: **Lee Smith**

b) The popular author of *Joy in the Morning* and *A Tree Grows in Brooklyn*

Answer: **Betty Smith**

c) This prolific author has written such novels as *Snake Eyes*, *Double Delight*, and *Starr Bright Will Be With You Soon* under the surname Rosamond Smith.

Answer: Joyce Carol **Oates**

15) For the stated number of points, answer these questions about 20<sup>th</sup> century Chilean history.

15 points) The first Christian Democratic president in the Western hemisphere, he was elected in 1964 under the slogan "revolution in liberty".

Answer: Eduardo **Frei** Montalva

10 points) Frei's successor was this man, Chile's first Marxist president.

Answer: Salvador **Allende**

5 points) After Allende's death (suicide by 14 gun-shot wounds) in 1973, this general took power.

Answer: Augusto **Pinochet**

16) Identify the type of molecular bond from a description for ten points each.

a) One or more pairs of electrons are shared by two atoms.

Answer: **covalent**

b) Classified according to the molecular angular momenta  $L$  about the  $z$ -axis, this bond corresponds to  $L = 0$ .

Answer: **sigma**

c) Appearing in benzene, the electrons involved belong to the molecule as a whole and not to any particular pair of atoms.

Answer: **delocalized**

17) Don't like this bonus? Blame Canada. FTPE answer these questions about our neighbor to the north:

a) Yellowknife, the capital of the Northwest Territories, sits on this large lake, Canada's second largest, whose tributaries include the Hay River.

Answer: **Great Slave** Lake

b) Separated from Baffin Island by the Hudson Strait is this large peninsula that forms the northern tip of Quebec.

Answer: **Ungava** Peninsula

c) Cities on this island, which was once a separate Crown Colony, include Nanaimo and Victoria.

Answer: **Vancouver** Island

18) Given three principal poets, name the poetry movement for the stated number of points.

A) (10 points) Verlaine, Rimbaud, and Verhaeren

Answer: **Symbolism**

B) (5 points) Pound, Williams, and Doolittle

Answer: **Imagism**

C) (15 points) Quasimodo, Montale, and Ungaretti

Answer: **Hermeticism**

19) For 10 points each, answer these questions about Pyrrhus.

a) What Egyptian queen did he marry the daughter of?

Answer: **Berenice I**

b) What 280 BCE victory over the Romans was so costly that it became known as the first "pyrrhic victory"?

Answer: **Heraclea**

c) What Macedonian king hired mercenaries to kill him in a street battle in 272 BCE?

Answer: **Antigonos Gonatas**

20) Name these ancient Zarathustrian deities for ten points each.

a) She was the goddess who watched over creation, as a shepherd does his flock. Riding in a chariot pulled by four white shining horses, she is often depicted as wearing a robe of pure gold and a cloak made of three hundred beaver skins.

Answer: **Anahita**

b) In the battle between good and evil, this was the head honcho of the dark side, the opposite number of Ahura-Mazda.

Answer: **Ahriman**

c) Once regarded as the greatest among the gods, he represented Empire, and also believed to decide whether there would be peace or war between nations. Found throughout Rome and even in London, name this god, the captain of the host against Evil.

Answer: **Mithra**

21) Identify the mental disorders from description FTPE.

1) A pervasive distrust and suspiciousness of others such that their motives are interpreted as malevolent.

Answer: **Paranoia**

2) A group of psychotic disorders usually characterized by withdrawal from reality, illogical patterns of thinking, delusions, and hallucinations, and accompanied in varying degrees by other emotional, behavioral, or intellectual disturbances.

Answer: **Schizophrenia**

3) A mental disorder characterized by episodes of mania and depression.

Answer: **Bipolar Disorder**

22) Identify these constants given their approximations (but not their units – that'd just be easy...).

A) (10)  $6.67 \times 10^{-11}$

Answer: **Gravitational constant**

B) (5)  $6.63 \times 10^{-34}$

Answer: **Planck's constant**

C) (15) .62433

Answer: **Golomb-Dickman constant**