T1. An old joke among biology majors says the "H." in "Jesus H. Christ" stands for this. This term can describe cells in many species of rotifers and in alternating generations of some plants and many fungi. It also describes sperm cells, egg cells, and any other cells formed by meiosis. FTP give the term for cells with only one set of chromosomes.

Answer: _HAPLOID_
T2. He eventually dies after refusing offers of help while in jail for vagrancy. Seems he realized he "preferred not to" do a lot of things, including look after himself. Originally a hard worker, his decline started when he was asked to proofread some documents and answered, "I would prefer not to." For 10 points, what is this Melville work about a copy clerk?

Answer: _BARTELBY THE SCRIVNER_(accept just Bartleby if given before "this Melville work")
T3. In 1947 a movement led by Salvatore Giuliano asked the U.S. to annex it and make it the 49th state. Its principal rivers include the Simeto, the Salso, and the Platani. Its principal mountain range, the Monte Nebrodi, does not include this island's highest point (over 9,000 feet) -- Mt. Etna. FTP name the Mediterranean's largest and most populous island.

Answer: _SICILY_
T4. He helped out the satyr Silenus, and received a gift in return from Dionysius. This gift proved a white elephant, however, and to get rid of the gift, Apollo allowed him to bathe in the river Pactolus, which thereafter had golden sands. For 10 points, who was this person whose gift was the ability to turn anything he touched into gold?

Answer: _MIDAS_
T5. This Civil War general was the winner of the Battle of Front Royal. When the war broke out, he was an instructor at the Virginia Military Institute. In his Shenandoah Valley campaign he tied up enough Federal forces to prevent McClellan from winning the Seven Days campaign. For 10 points, who is this Confederate general that earned his nickname at First Manassas, and was shot by his own men at Chancellorsville?

## Answer: Thomas J. "Stonewall" _JACKSON_

T6. A pupil of Laplace and Lagrange, he became professor at the Ecole Polytechnique in 1806. He made contributions in celestial mechanics and electromagnetism, but his real legacy is in probability theory. FTP name the man who established the law governing the distribution of rare and randomly occurring events.

Answer: Simeon _POISSON_
T7. He is credited with the development of illusionism, in which an artificial sense of reality makes the observer feel included in the composition. He was the brother-in-law of Giovanni and Gentile Bellini; his patrons for 40 years were the Gonzaga family, which eventually made him a count. FTP name this painter of Parnassus, Death of the Virgin, and frescoes of the Gonzagas including one that gave the name to their famed Bridal Chamber.
Answer: Andrea _MANTEGNA_
T8. They serve as building blocks form such complex organic molecules as cortison and cane sugars. They are used as preservatives, in tanning and hydraulic fluids, and as solvents. Their ease of preparation, high reactivity, and relative stability make them ideal chemical intermediaries, although they're less reactive than the closely related aldehydes. FTP give this general name for organic compounds characterized by the presence of a carbonyl group, the most widely known of which is acetone.

Answer: _KETONES_
T9. They began with night raids in Nottingham and, spurred by low wages and high unemployment, soon spread throughout urban England. Named for a mythical king, they were repressed harshly in 1812 and resurfaced briefly in 1816 to receive the same treatment. FTP name these bands of workingmen who sought to destroy textile machinery.

Answer: _LUDDITES_

T10. Clara Rockmore died in May 1998 at age 87. She was the first and foremost virtuoso of an instrument invented by her lover, perhaps the only instrument played without actually touching it. It first gained notoriety in the soundtrack for Spellbound and was used in the hits "Good Vibrations," "Veloria," and "With or Without You.". FTP give the last name of Rockmore's Russian lover and you've named the original electronic musical instrument.

## Answer: _THEREMIN_

T11. In the Guatemalan rain forest near the Mayan ruins of Tikal, he had a close encounter with a jaguarundi. This prompted an epiphany in which he perceived that out of the simple and the uniform rise the complex and the individual. He writes of this, and of entropy, time, and randomness, in The Quark and the Jaguar. FTP name the physicist who proposed the eightfold way for classifying particles and introduced the terms "strangeness" and "quark," winner of a 1969 Nobel Prize.

Answer: Murray _GELL-MANN_
T12. QUOTE: "Poverty is the best policy. If you get wealth, you will have to support other people; if you do not get wealth, it will be the duty of other people to support you." He thus answered the rhetorical question, "What do the social classes owe to each other" with a resounding "nothing." FTP name this American social theorist and proponent of Social Darwinism, who coined the term "folkways" in his book of the same name.

Answer: William Graham _SUMNER_
T13. An acclaimed 1994 production by the Royal Shakespeare Company was set in 1930's Britain, with the songs "When daffodils begin to peer" and "Jog on, jog on, the footpath way" performed in baggy-pants music-hall style. Its first act is so grim that one wonders if it's really a comedy before the roguish peddler Autolycus livens up the later scenes. FTP name this Shakespeare play, which revolves around the true identity of the shepherdess Perdita and the extreme jealousy of King Leontes toward his faithful wife Hermione.

Answer: The _WINTER'S TALE_
T14. Despite a 2-to-1 advantage, the English force was cramped by lack of space, hemmed in by pits dug along the line of attack, and slowed by the marshy ground where they were attacked. Well over half of Edward II's 15,000 men were killed in the costliest single day ever for English knighthood. FTP name this 1314 battle with which Robert the Bruce halted the English invasion and won the throne of Scotland.

## Answer: _BANNOCKBURN_

T15. Only scant knowledge of his life can be gleaned from his writings and from references to him by later writings, notably the Suda. His classic work was the first comprehensive attempt at secular narrative history, and is the starting point of Western historical writing. FTP, identify this 5 th century B.C. Greek historian, the focus of whose work is the Persian Wars.
Answer: _HERODOTUS_
T16. The second was established in 1956, and serves as a critical element of NATO's defense. The first one was established in 1935, in direct defiance of the Treaty of Versailles, but by 1945, it had virtually ceased to exist, its equipment scattered across the European countryside. For 10 points, what is this name of the German Air Force?

Answer: _LEFTWAFFE_
T17. Take calcium sulfate dihydrate, better known as gypsum. Grind it and heat it at about 375 degrees until about $3 / 4$ of the water content is driven off. The resulting powder, when mixed with water, forms a paste that hardens rapidly after shaping. FTP name this substance, used for construction, arm and leg casts, and artists' molds and sculptures.

## Answer: _PLASTER OF PARIS_

T18. Cole Porter wrote "Night and Day." The Moody Blues recorded the album "Every Good Boy Deserves Favour." U2 sand "The Real Thing." Take these titles and throw in "Dirty Linen," "The Real Inspector Hound," and "Jumpers," and you'll have a partial list of the plays by this man, co-winner of a 1998 screenplay Oscar for "Shakespeare in Love." FTP name the playwright of "Travesties" and "Rosenkrantz and Guildenstern Are Dead."

Answer: Tom _STOPPARD_

T19. Steve Whitmire has been responsible for bringing this character to life since 1990. He began his career on a local show in Philadelphia and had a secondary role as a roving reporter on a PBS series before hosting his own variety show. For ten points, name this American icon whose signature songs are "The Rainbow Connection" and "It's Not Easy Being Green," originally created and voiced by Jim Henson.

Answer: _KERMIT_ the Frog
T20. The Greeks and Romans saw it as the sign of Iris. American Indians saw it as a gift from the sun god. In Genesis, chapter 9, it is a symbol of God's covenant with mankind after the flood. For 10 points, what is this item, the result of sunlight being diffracted through raindrops?

Answer: _RAINBOW_
T21. In it a holy virgin named Marjetta gives birth in a stable to a future king. Among the villains are the slave Kullervo, who ravishes his own sister; the giant Vipunen, who temporarily swallows one of the heroes, and the witch Louhi, who demands from her daughter's suitors a magic Sampo which grinds out riches. The heroes are the smith Ilmarinen, the singer Vainamoinen, and the warrior Lemminkainen. FTP name this epic, assembled by Elias Lannrot from generations of Finnish folktales.

Answer: the _KALEVELA_
T22. Its five towers supposedly represent the five peaks of Mount Meru. Built by Suryavaraman II in the 12th century A.D., it began to fall into ruins after the area was sacked around 1177 and eventually was lost in the jungle. Rediscovered by Henri Mouhot in the 1860 's, it's become perhaps the only noteworthy tourist site in Cambodia. FTP name this ruined city.

Answer: _ANGKOR WAT_

1999 Terrapin Invitational Tournament
Questions by Charlie Steinhice
BONUSES (All worth 30 points)
B1. Identify the following sometime-to-most-of-the-time a cappella groups from the following clues, FTPE: .

1. You've heard them on Almond Joy commercials or as part of the singing chorus of bugs in Joe's Apartment; however, they're best known for singing the theme song to the show Where in the World Is Carmen Sandiego.
Answer: _ROCKAPELLA
2. This group has won multiple Grammys, including for its a cappella rendition of A Nightingale Sang in Berkeley Square. They're more famous for covers of old stalwarts like Boy from New York City and Java Jive and the high school marching band perennial Birdland.
Answer: The _MANHATTEN TRANSFER_
3. This Canadian quartet has been singing for nearly 25 years, and - other than the annoying occasional karaoke percussion background - never performs with instruments. They're most famous for their 1987 hit recording of Na Na, Hey Hey, Kiss Him Goodbye.

Answer: The _NYLONS_
B2. We love a new reference book, The Book of Classical Music Lists. Ah, heavenly - so easy to write out of... FTPE identify these members of the list therein: Composers who Died Insane.

1. He died in 1848 after suffering for years from headaches \& depression, but not before completing The Elixir of Love and Don Pasquale.
Answer: Gaetano _DONIZETTI_
2. In 1854 he attempted suicide, and died in an asylum at Endenich, near Bonn, two years later. Works include the Rhenish Symphony and incidental music for Manfred.
Answer: Robert _SCHUMANN
3. His growing deafness and the intrigue of his opponents in Bohemian musical circles caused this composer of The Two Widows and The Moldau to break down; he died in an asylum in 1884.
Answer: Bedrich _SMETANA
B3. By now you know about Charlie Steinhice's favorite bonus form for non-collegiate tournaments, the 30-20-10-5-1. Here's another with the 1-point clue edited out. Name this city, 30-20-10-5:
30) The site of the annual International Toy Festival, this city on the river Pegnitz was one terminus of Germany's 1st railway.
31) Here in the late 1400's Anton Koberger printed the first history book. Other famous natives include the poet Hans Sachs and the artist Albrecht Durer.
32) A target of major Allied bombing raids, it was the site of the most massive and visually impressive Nazi rallies, including the one seen in Leni Riefenstahl's Triumph of the Will.
(5) In 1945-1946 it hosted the War Crimes Tribunal.

Answer: _NUREMBERG_or_NURNBERG
READER'S NOTE: The 1-point clue was, "In 1961 Maximilian Schell won the Best Actor Oscar for Judgment at Nuremberg, which was set in this city."

B4. On June 30, 1999, the Independent Counsel Law faded back into the obscurity it so richly deserves. And so, to mourn the passing of the law that brought America Kenneth Starr, answer the following.

1. Neither of these two Watergate special prosecutors were independent counsels, although they are seen as the beginning of the movement that led to the 1978 law. For 5 points each, name them.
Answers: Archibald _COX_ and Leon _JAWORSKI
2. For 5 points, name the other most famous Independent Counsel, who worked on the Iran-Contra scandal.

Answer: Lawrence _WALSH_
3. For 15 points, and you deserve it if you can get this one, name the first Independent Counsel, charged with investigating cocaine use by Carter's White House Chief of Staff Hamilton Jordan.
Answer: Arthur _CHRISTY_

B5. This was another of Charlie's 30-20-10-5-1's. Name the element, 30-20-10-5:
30) Its nitrate makes signal flares burn green; its titanate is used in sonar detectors; its ferrite is used in some magnets; and it's an ingredient in the white pigment lithopone.
20) It takes its name from the Greek for "heavy." Found in the minerals heavy spar and withorite, it combines so readily that it must be separated by electric current and stored in kerosene to be kept in pure form.
10) Discovered by Humphry Davy in 1808, its sulfate is used in X-ray exams to show an outline of the intestines.
5) Its atomic number is 56 .

Answer: _BARIUM
READER'S NOTE: The 1-point clue was "Its sulfate, the same compound used in the infamous barium enemas, is also used in drilling fluids for gas wells. Make your own joke here."

B6. FTPE name these non-title characters from the Brothers Karamazov:

1. This is the woman that Dmitri loves, or at least lusts after, but that his father scores with instead.

Answer: _GRUSHENKA
2. Many off the villagers think he's really the illegitimate son Fyodor and thus another title character. Either way, this half-witted servant kills Fyodor.
Answer: _SMERDYAKOV
3. Alyosha is dedicated to this ascetic monk, who advises him to return to the world. When he dies, his followers decide he must have been a liar because his body decomposes so rapidly. (Yeah, me neither.)
Answer: Father _ZOSSIMA_
B7. 30-20-10, name's the same, first and last.
30) The one born in 1788 was a philosopher who introduced Kant to the British public and author of Lectures on Metaphysics and Logic.
20) The one born in 1730 was a diplomat and antiquary; while ambassador at Naples, he assisted in the excavation of Pompeii and wrote on Greek and Roman antiquities.
10) The one born in 1805 was a mathematician and inventor of quaternions.

Answer: _WILLIAM HAMILTON_
B8. Name these figures in the independence of Haiti FTP each.

1. Though he died in a French dungeon before full independence, his victories driving British forces from Haiti inspired the revolution.
Answer: Francois Dominique _TOUSSAINT L'OUVERTURE
2. His 1803 vietory over the French assured independence, and he became the first leader of an independent Haiti until he was assassinated in 1806.
Answer: Jean-Jacques _DESSALINES_
3. He succeeded Dessalines and like him, became a despot, even crowning himself Emperor of Haiti.

Answer: Henri _CHRISTOPHE_(accept Emperor_HENRI I_)
B9. For 10 points each, name these scientists from their work with the alpha particle:

1. He won the 1908 Nobel in Chemistry, in part for discovering that alpha particles consisted of helium nuclei.

Answer: Sir Ernest _RUTHERFORD_
2. Working with Rutherford, he developed ionization chambers and scintillation screens to count the alpha particles produced by a source of radioactivity. He later refined his devices to detect beta particles as well.
Answer: Hans _GEIGER_
3. He worked for Geiger, $\overline{\text { then }}$ for Rutherford, where he used the scattering of alpha particles to determine the atomic numbers of several elements. His 1932 discovery of the neutron was the result of bombarding beryllium and boron with alpha particles.
Answer: James _CHADWICK_

B10. TRAVELS WITH CHARLIE: So why did Charlie go 350 miles out of his way to visit Dyersville, Iowa -- twice? Well, 3 miles north of town there's this cornfield... FTPE answer the following about Field of Dreams:

1. The film's director, his few other screen credits include Sneakers and In the Mood.

Answer: Phil Alden _ROBINSON
2. The film was based on the novella Shoeless Joe by this card-carrying scout for the Atlanta Braves.

Answer: W.P. _KINSELLA
3. According to the film, this rookie from Chisholm, MN, played in one game for the 1921 New York Giants without a single plate appearance.
Answer: Archibald "Moonlight" _GRAHAM_
B11. Given a description of a Freudian defense mechanism, name it FTP each.

1. Stressful impulses are converted into socially acceptable activities.

Answer: _SUBLIMATION
2. Psychological conflicts or feelings are unconsciously transmuted into the opposite desire.

Answer: _REACTION FORMATION
3. Stress is reduced by returning to an infantile pattern of behavior.

Answer: _REGRESSION_
B12. Given various facts, name the planet FTP each.

1. At 29.75 miles per second, it has the fastest orbital velocity.

Answer: _MERCURY
2. The eccentricity of its orbit is 0.24 , the largest in the solar system.

Answer: _PLUTO_
3. It is the only planet whose siderial period of rotation is longer than its siderial revolution.

Answer: _VENUS_
B13. Paint-by-numbers genre fiction is not exclusively a 20th century phenomenon. Sir Walter Scott's novels typically featured English monarchs, noblemen in disguise, both, or even one and the same. Name these Scott novels from characters for the stated number of points.

1. For 5 points--Cedric the Saxon, Locksley (who's really Robin Hood), and the Black Sluggard (who's really Richard I.)

Answer: _IVANHOE
2. FTP--Richard I again -- this time not in disguise, Sir Kenneth (who's really David, Earl of Huntingdon), and El Hakim (who's really Saladin.)
Answer: _THE TALISMAN
3. For 15 points--Elizabeth I, Edmund Tressilian, Alasco (who is really Dr. Demetrius Doobie), and Dickie Sludge.

Answer: _KENILWORTH_
B14. Answer these questions about the Divine Poet, Dante Alighieri.

1. For 5 points, who was the woman that he held as the feminine ideal of grace, beauty and piety?

Answer: _BEATRICE_Portinari
2. For 5 points, who is the person that, in the Divine Comedy, guides Dante through the Inferno and the Purgatorio?

Answer: _VERGIL
3. FTP, unfortunately, Dante belonged to this political faction in Florence, the faction that didn't have the Pope's backing, and was therefore exiled from Florence.
Answer: White _GUELPHS
4. FTP, in this collection verse and prose written about 1293 , he claims that by age 18 , he had taught himself how to write poetry. Answer: La _VITA NUOVA_ or The _NEW LIFE_

B15. Answer the following about useless treaties, conferences \& declarations of the inter-war period for the stated number of points.

1. For 5 points, this 1928 product was signed by 63 nations that decided to renounce war.

Answer: the _KELLOGG-BRIAND_Pact
2. For 5 points, the Stimson Doctrine was issued in 1932 as a protest against what nation's behavior?

Answer: JJAPAN_
3. FTP, this 1922 conference established naval tonnage ratios between the U.S., the United Kingdom, Japan, France and Italy.

Answer: the WWASHINGTON_Naval Conference
4. FTP, the Treaty of Sevres ( $\overline{\mathrm{SEV}}$ ), signed in 1920, tried to end the power of what nation after World War I?

Answer: the _OTTOMAN_Empire or _TURKEY_
B16. Given a philosophical quote, identify the author for 10 points each.

1. In his The Imitation of Christ, he said, "Man proposes, but God disposes."

Answer: Thomas a KEMPIS
2. In his essay, On Liberty, he warned, "In political speculations 'the tyranny of the majority' is now generally included among the evils against which society requires to be on its guard."
Answer: John Stuart _MILL_
3. In his 1759 work $\bar{H}$ istorical Review of Pennsylvania, he wrote: "They that can give up essential liberty to obtain a little temporary safety deserve neither liberty nor safety."
Answer: Benjamin _FRANKLIN_
B17. Given a Willa Cather work, name it from a plot description for 10 points each.

1. This novel is based on the lives of two French Catholic priests who established the Diocese of New Mexico.

Answer: _DEATH COMES FOR THE ARCHBISOP
2. This work set on the Nebraska frontier is narrated by the title character's lifelong friend Jim Burden.

Answer: _MY ANTONIA
3. Marian Forrester's rise, descent and re-rise are told through the eyes of the initially adoring, then wearied Niel Herbert.

Answer: A _LOST LADY_
B18. In 65 AD , there was a conspiracy to overthrow the Roman emperor. OK , so there was at least one conspiracy to overthrow the Roman emperor every year, but these questions are only asking you about this one. FTPE:

1. 41 participants conspired to assassinate Nero, and place this man as the new emperor.

Answer: Gaius Calpurnius _PISO_
2. Piso had been installed by Tiberius as governor of what province?

Answer: _SYRIA
3. Of the $\overline{4} 1,18$ died. Name either the philosopher or his nephew poet who were among the casualties.

Answer: _SENECA_(the Younger) or _LUCAN_
B19. For those who think mythology is bull, answer the following for 5 points each:

1. Zeus disguised himself as a bull to seduce this beautiful daughter of Agenor, King of Tyre.

Answer: _EUROPA
2. For 5 points each, name the three sons Zeus had by Europa.

Answer: _MINOS_,_RHADAMANTHUS_, and _SARPEDON
3. Agenor ordered $\overline{\vec{i}} \overline{\mathrm{i}}^{-}$sons to search for their sister. They never $\overline{\text { found }} \overline{-}$ her, but along the way this son managed to found Thebes.

Answer: _CADMUS_
4. Zeus carried Europa off to this island; she later married its king, Asterius.

Answer: _CRETE_
B20. The year 1848 was a year of revolutions and rebellions that didn't really depose anyone. Given a country, name its monarch in 1848 for the stated number of points.

1. For 5 points, the United Kingdom.
2. For 5 points, either of France's rulers.
3. FTP, either of Austria's rulers
4. FTP, Russia.

Answer: _VICTORIA
Answer: _-LOUIS PHILIIPPE_ or _LOUIS NAPOLEON_ (or_NAPOLEON III)
Answer: _FERRDINAND_ or _FRANZ JOSEF_(he ruled until 1918).
Answer: _-NICHOLAS I_

B21. For the stated number of points unmask the authors of the following works:

1. For 5 points--The author of "The Masque of the Red Death" Answer: Edgar Allan _POE
2. FTP, the author of _The Man in the Iron Mask_

Answer: Alexander_DUMAS_pere
3. For 15 points--the poet of "We Wear the Mask"

Answer: Paul Laurence _DUNBAR
B22. The Nobel Prize for Physiology/Medicine rarely goes to just one individual. For 10 points each, given a year and the reason for the award, identify these exceptions to that rule.

1. 1997, discovery of prions
2. 1983, discovery of mobile genetic elements
3. 1930, discovery of human blood groups

Answer: Stanley _PRUSINER
Answer: Barbara _MC CLINTOCK_ Answer: Karl _LĀNDSTEINER_

