## George Washington University JVC Packet by Swarthmore and Virginia A Used with permission at 2002 Elvis Saturday - Possible Championship

1.) It was fought the first anniversary of the victor's coronation, in what is presently Moravia. The climactic victory stroke came with the "lion's leap" of the French forces out of a bank of fog, pinning the allied troops down in the Golden Creek valley on several sides. Despite continued fighting by the Russians afterwards, Austria was forced to capitulate completely. FTP, what was this December 2nd, 1805 battle often referred to as the Battle of the Three Emperors?

Answer: Austerlitz
2.) Once expensive, it is now found in fission byproducts in ready supply. The spectrum of this silverish metal appears in some stars, and it resembles rhenium chemically. Two German scientists thought they had discovered it in the 1920's, and named it masurium, but they were wrong, and it was really discovered in Italy in 1937. FTP, name element 38, the first artificial one.

Answer: $\quad$ Technetium or Tc
3.) This author was ultimately concerned with boundaries: national, racial, cultural. By writing in a mixture of languages, styles, and traditions, she was attempting to write the problematic of being other than "Western-American" in the United States and Latin America. Her style, La Nueva Mestiza (noo-EH-vah mess-TEE-zah), was written in "Corrido" (kor-EE-doh) form. Her goal was to include all aspects of her cultural background, and to distinguish "Border" from "Borderland." FTP, name this author of "Crossing Borders," or "Atravesando Fronteras" (ah-trah-veh-SAN-doh fron-TER-as) and "The Homeland, Aztlán, El Otro Mexico" (ahz-TLAN EL OH-troh meh-HEE-koh).

Answer: $\quad$ Gloria Anzaldúa (an-zahl-DOO-ah)
4.) This bird, the Syrian species of which became extinct in 1941, can live up to 70 years. The males, which mate several times a day, sit on the eggs, and are usually allowed two mates on farms. Both males and females use their short wings for aggressive courtship displays. During the 19th century, they were hunted for their feathers, but are not a threatened species today. Even today, they are reared for their leather and healthy red meat. FTP, name this largest living bird which proverbially has its head in the sand.

Answer: $\quad$ Ostrich or Struthio camelus
5.) This philosopher spent his last decade vilifying Rousseau. Although he said that his principles "would produce almost a total alteration in philosophy" by arguing for the predictability of human nature, his first major work, "fell dead-born from the press" despite his own anonymous positive review. Much after his failed Treatise of Human Nature, he published Enquiry Concerning Human Understanding as a replacement. FTP, name this Scottish empiricist.

Answer: David Hume
6.) This team's public-address announcers are Larry Burnett and Ann Meyers-Drysdale, and its general manager is Penny Toler. In 2002, Michael Cooper will coach players such as

Ukari Figgs and the Croatian Vedrana Grgin-Fonseca on NBC in the season's first game May 25 against the New York Liberty. This follows a 2001 campaign in which stars such as DeLisha Milton and Lisa Leslie led them to their first championship. FTP, name this WNBA team from Los Angeles.

Answer: Los Angeles Sparks (accept "Los Angeles" on early buzz)
7.) In its afterward, Tolstoy proposed total abstinence as an ideal, the culmination of the extreme Christianity which characterized his later years. It is the dark story of a man who takes the Bible verse "But I say unto you, that everyone that looketh on a woman to lust after her hath committed adultery with her already in his heart" to heart and accuses his wife of adultery with the violinist Trukhachevskii and, although she is innocent, kills her. For ten points, name this 1891 novella that prominently features a Beethoven sonata.

Answer: The Kreutzer Sonata
8.) A highlight of his reign was the construction of the Saint Sophia cathedral in Constantinople. His generals in the West, Belisarius and Narses, destroyed the Vandal kingdom in Africa and defeated the Ostrogoths in Italy, retaking Rome in 536. Not surprising that he earned the epithet "the Great". For ten points, name this emperor, famous for his "Corpus juris civilis", the foundation of the Roman law still used in many European countries.

Answer: Justinian I
9.) It was commissioned by Lorenzo the Magnificent as the wedding present offered to his cousin Lorenzo di Pierfrancesco di Medici, who married in 1482. The figures are all mythological and are identified as, from right to left: Zephyr embraces gossamer-clad Clori; a nymph who is in the process of transforming into Flora - the goddess of Fecundity, as the flowers on her breath show. The central figure is Venus, and above her is Cupid straining a dart to the dancing three Graces, while Mercury, on the far left, raises the caduceo to the clouds. For ten points, name this Botticelli masterpiece.

Answer: $\quad$ La Primavera or The Allegory of Spring
10.) A boyhood friend of Johnny Appleseed, this man fought in the Revolutionary War, but his fame really developed during the War of 1812. Sam Wilson opened up a meat-packing plant and earned his nickname with a reputation for fair dealing and a jovial demeanor. Since some crates of meat were meant for military use, he had them stamped with "U.S.," for "United States." FTP, identify this character who wants you for the U.S. Army.

Answer: Uncle Sam
11.) The immediate cause for revolt was the introduction of the new Lee-Enfield rifle; to load it one had to bite off the ends of lubricated cartridges. After some enlisted men refused to bite the cartridges because they were allegedly greased with pig and cow lard, an insult to both Muslims and Hindus, they were jailed, and their incensed comrades rose, shot their British superiors, and marched to Delhi. The efforts of Sirs Colin Cambell and Hugh Rose put down, for ten points, which rebellion, that resulted in the abolishment from India of the East India Company?

Answer: Sepoy Mutiny
12.) The subject of the Martha Graham drama Night Journey, she was known to Homer as Epicaste [eh-pee-CAST-ee], but in all traditions she was the daughter of Menoeceus [men-EE-see-us] and the sister of Creon. A queen of Thebes, she had only one son with her first husband, Laius, but two decades later she had four more, Ismene, Eteocles, Polynices, and Antigone. FTP, name this mother of and wife to Oedipus.

## Answer: Jocasta

13.) There exists a data structure whose worst case search time improves on the Binary Search Tree's $\mathrm{O}(\mathrm{N})$, (pronounced $\mathrm{O}-\mathrm{of}-\mathrm{N})$ in big O notation. Its worst case time is $\mathrm{O}(\log \mathrm{N})$ (pronounced $\mathrm{O}-\mathrm{of}-\log -\mathrm{N}$ ). The structure works by ensuring that every node's subtrees differ in height by no more than one. For ten points, name this data structure that uses single and double rotations to rebalance the tree after every insert and delete operation.

Answer: $\quad$ Adelson- $\underline{V}$ elskii-Landis Tree
14.) It takes place in Crete, premiered in Munich in 1781, and arrived in the United States in 1947. Minor characters include Arbace, who is the king's confidant; a high priest; and a god represented by a voice. The king has made a promise to this god that he'll sacrifice the first living creature he sees upon reaching shore, but it happens to be his son, and he is unwilling to kill him. Elettra, daughter of Agamemnon, is glad when the son is sent to escort her home because she loves him, but Ilia, daughter of King Priam, also loves him. In the end, the king is forced to reveal that he is supposed to sacrifice Idamante, but Ilia offers herself in his place, and Neptune, appeased, sings "Ha vinto Amor," love has triumphed. FTP, name this Mozart opera which ends with the titular character giving his throne to Ilia and Idamante.

## Answer: Idomeneo

15.) Laura Fairlie, an English heiress, closely resembles Anne Catherick, a mysterious woman confined to a lunatic asylum. In order to secure Laura's money for himself, the villainous Sir Percival Glyde places her in the asylum in place of the dying Anne, but this treachery is exposed in the end by her faithful beau Walter Hartright, who saves her from both Sir Percival Glyde and the other mysterious villain, Count Fosco. For ten points, name this Wilkie Collins novel, which first appeared in 1860 in Dickens' All the Year Round..

Answer: The Woman in White
16.) Born Farookh Balsara in Zanzibar, this man was schooled in India and England, where he joined a band called Smile. A fan of the opera, his duo "Barcelona" performed, with Montserrat Caballe (maw-serrAHt caba-YE), the theme of the 1992 Olympics. Before his death, he filmed two videos in heavy makeup, leading many to believe he was diseased. FTP, name this man who, before dying of AIDS, led the band Queen.

Answer: $\quad$ Freddie Mercury
17.) This man was communications director for Elizabeth Dole's presidential candidacy, and spokesman for Sen. Domenici and for the House Ways \& Means Committee. It was his idea to make fun of Al Gore's famous "iced tea defense" by serving reporters iced tea on Bush campaign flights. FTP, name President Bush's press secretary.

Answer: Ari Fleischer
18.) Discovered when a gold-seeking daredevil pilot got bogged down in a marsh at the top of the Auyan-Tepui (ow-YAN teh-PWEE) this landmark is inaccessible by foot, and the original pilot's plane was only removed in 1970, still in good condition. FTP, name this Orinoco waterfall, in the Guyana Highlands of Venezuela, the world's highest uninterrupted cataract.

Answer: Angel Falls
19.) This structure exists in all plants, but exists in two different forms. Sieve tube members in angiosperms and sieve cells in most gymnosperms. Sieve plates accompany sieve tube members but are not found in sieve cells. Recent studies indicate the mRNA travels through these systems to reach many parts of a plant, creating new possibilities for grafting genetically modified plants. For ten points, name the system that uses pressure differentials to carry food from the leaves through to the rest of the plant.

Answer: Phloem (flow-em)
20.) An optimist who believed that the social sciences had already given mankind the information basic to happiness, he advocated a planned, or "telic", society, called a "sociocracy", in which nationally organized education would be the dynamic factor. In 1906, he became Professor of Sociology at Brown University at age 65. His most important work, Dynamic Sociology, was influenced heavily by French sociologist Auguste Comte. For ten points, name this sociologist who was instrumental in establishing sociology as an academic discipline in the United States.

Answer: Lester Frank Ward
21.) While defending it, General Rall, underestimating the invader's ability to attack, failed to construct the field works surrounding the town, boasting "We want no trenches! We'll use the bayonet!" The invading general also told his commanders, Generals Sullivan and Green, to rely on the bayonet, knowing that gunshot would alert the enemy to his position, when he was relying on a dark winter night to keep them hidden.. The Hessian major decided not to send out the morning patrol and thus allowed the surprise attack of the town. FTP, name this New Jersey town, whose capture Washington undertook after crossing the Delaware on December 26, 1776.

## Answer: Trenton

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1.) Identify the following parts of the pre-mRNA molecule, 15 points each:
A. It is added at the beginning of the mRNA strand to prevent degradation by hydrolytic enzymes. It is part of the molecule is this which serves as the attachment site for ribosomes during translation and is composed of a guanine nucleotide enhanced by a triphosphate.

Answer: 5' Cap (said five prime cap)
B. Added to the end of the mRNA strand also to prevent degradation, this region, composed of 30 to 200 adenine molecules, facilitates the mRNA's exit from the nucleus.

Answer: Poly-A Tail (accept poly-adenine tail)
2.) Identify the following concerning rulers who died in battle.
A. During the Thirty Years War at the Battle of Lutzen, this ruler perished. He laid the groundwork to make Sweden a European Power.

Answer: Gustavus (II) Adolphus
B. During this decisive 1526 defeat of Hungary by the Turks, Louis II was killed.

Answer: Mohacs
C. In 1485 , Richard III was killed in a bog at Bosworth Field by this man who would found a new English Dynasty

## Answer: Henry VII Tudor

3.) Name the television game shows:
A. An MTV show, the guest has two dates and eventually gets rid of one of them

Answer: Dismissed
B. A UPN show, a woman selects four men from 100 prospects. The finalists are actually chained to her wrists and ankles for a week before she selects her dream date.

Answer: Fifth Wheel
C. A WB show, it simultaneously pits four suitors against one another for the hand of one lucky single on a group date.

Answer: ElimiDate
4.) The Google Zeitgeist is a compilation of Internet search statistics that tracks which searches are most popular. For 10 points each:
A. What pop star topped the list of the Top Ten women searched for in 2001?

Answer: Britney Spears
B. The leading figure on the Top Ten men listed was this 16 th-century physician.

Answer: $\quad$ Nostradamus or Michel de Notredame
C. This generally non-champion calibre athlete was the top sports query last year.

Answer: Anna Kournikova
5.) Answer the following about Physics:
A. First observed in mercury by Heike Onnes, this is the term used to describe the complete disappearance of electrical resistance in various solids when they are cooled below a characteristic temperature.

## Answer: Superconductivity

B. This effect explains the expulsion of a magnetic field from the interior of a material that is in the process of becoming a superconductor.

## Answer: Meissner

C. This effect explains the low of electric current between two pieces of super conducting material separated by a thin layer of insulating material.

Answer: Josephson
6.) Give the following Roman generals:
A. A bitter enemy of Catullus, along with Jugurtha this seven-time consul served in the Numantine War of 134 BC. His wife, Julia, was the aunt of Julius Caesar.

## Answer: Gaius Marius

B. The loser of three legions in the Battle of the Teutoburg Forest, the loss stemmed Roman expansion beyond the Rhine River. He killed himself by falling on his sword.

## Answer: Publius Quintilius Varus

C. The nephew and adopted son of Tiberius, he was renown for his struggle with Gnaeus Calpurnius Piso in Syria. He was the brother of Claudius and the father of Caligula.

Answer: Germanicus Caesar
7.) Answer the following about a Latin American Author:
A. Mexico's ambassador to India from 1962 to 1968, his first published work was a book of poetry, Luna silvestre or "Forest Moon".

Answer: Octavio Paz
B. Paz's most famous work, in it, he addresses the nature of political power in postconquest Mexico, the relation of Native Americans to Europeans, and the ubiquity of official corruption.

Answer: Labyrinth of Solitude (El laberinto de la soledad)
C. In 1956 and 1957 Paz published two studies of contemporary Spanish American poetry. Name Either!

Answer: El arco y la lira (The Bow and the Lyre) OR Las peras del olmo ("The Pears of the Elm").
8.) For ten points each identify each of these musical compositions for children.
A. These six pieces were written by Debussy for his daughter. Pieces include Jimbo's Lullaby, Serenade for the Doll, and Snow is Dancing.

Answer: The Children's Corner
B. These are a suite of 12 piano pieces for duet performance written by Bizet. Numbers 2, 3, 6, 11, and 12 were orchestrated in his Petite Suite.

## Answer: Jeux d'enfants or Children's Games

C. Written by Benjamin Britten for an instructional film about the orchestra, it is sometimes known by its subtitle, Variations and Fugue on a Theme by Purcell.

Answer: The Young Person's Guide to the Orchestra
9.) Name the following works by Friedrich Nietzsche:
A. The first statement of mature philosophy, in it Nietzsche introduces the term "Ubermensh." It is told from the point of view of a prophet who after years of meditation has decided to share his wisdom.

Answer: Thus Spoke Zarathustra (Also sprach Zarathustra)
B. A series of three essays, in this work Nietzsche questions the value of our morality. He argues that our present morality is harmful to the future prosperity of our species.

Answer: On the Genealogy of Morals (Zur Genealogie der Moral)
C. This autobiographical work was published posthumously.

Answer: Ecce Homo
10.) Identify the following works by W. Somerset Maugham FTPE.
A. The unauthorized biography of Edward Driffield, a man idolized by literary society and whose second wife learns about his less respectable days.

Answer: Cakes and Ale
B. Charles Strickland, a dull bourgeois gentleman, is driven to abandon his home, wife, and children, to devote himself to painting, drifting to Paris, Marseilles, and finally, to Tahiti.

Answer: Moon and Sixpence
C. A fictional biography of Machiavelli that talks about the incidents and motivations behind the writing of The Prince

Answer: Then and Now
11.) Identify the following films from stills found in the National Nobel Museum of Film and Television, FTPE.
A. The sun is on the horizon. On the beach, a knight in armor is playing chess with a pale, hooded man with a hidden scythe. The knight wins ... for now.

## Answer: The Seventh Seal

B. The faces of two similar-looking women are superimposed. The left side of the face belongs to the nurse; the right side of the face belongs to the opera singer who suddenly lost her voice.

## Answer: Persona

C. The clock has stopped ticking. An old professor is standing next to a carriage carrying a coffin. He is looking at his own face inside the open coffin.

Answer: Wild Strawberries
12.) Answer the following concerning the legal history of labor unions:
A. The alternate name of Loewe vs. Lawlor, in this case the Supreme Court held that labor unions were subject to anti-trust laws.

Answer: Danbury Hatter's Case
B. This act of 1947 preserved the right of unions to collectively bargain but restricted the use of strikes and union political contributions. It was amended in the Landrum-Griffin Act of 1959.

## Answer: Taft-Hartley Act

C. Both the Danbury Hatter's Case and Taft-Hartley Act barred this process, an attempt to induce a third party to withhold patronage from a given entity.

## Answer: Secondary boycott

13.) Answer these questions about a European artistic movement, FTPE.
A. This movement emphasized speed and the beauty of the mechanical, scorning museums and women.

Answer: futurism or futurismo
B. He was the founder of Futurism and author of both the "Foundation Manifesto of Futurism" and "Wireless Imagination: Words-in-Liberty"

Answer: Filippo Tommaso Marinetti
C. Futurist Luigi Russolo wrote this manifesto of Futurist sound and music. The name of the manifesto was taken up by a 1980s postmodern pop group who had a hit with "Close (To The Edit)."

Answer: The Art of Noises or l'arte di rumori
14.) Answer the following concerning Computer Science:
A. This is a model of computation consisting of a set of states, a start state, an input alphabet, and a transition function that maps input symbols and current states to a next state.

## Answer: finite state machine

B. For 5 points each, these are the two most common types of finite state machine

Answer: Mealy machine AND Moore machine
C. This is a finite state machine with probabilities for each transition. It is named for a Russian scientist.

## Answer: Markov chain

15.) Identify each of the following slogans from early American history for ten points each.
A. A Democratic rallying cry during the 1840 's, this slogan demanded the US annexed the entire disputed Oregon territory. The slogan includes the upper latitude boundary of the region.

## Answer: 54-40 or Fight

B. This was the campaign slogan of the Whig presidential campaign of 1840 . It combined a nickname of the presidential candidate with the name of the vice-presidential candidate.

Answer: Tippecanoe and Tyler Too
C. This term was used by opponents of the Embargo Act of 1807. The slogan was derived from the word Embargo

Answer: O grab me (embargo spelled backwards)
16.) Identify the from college basketball:
A. The all-time leading scorer, in 3 years at LSU he scored 3667 points.

Answer: Pete Maravich
B. The all-time leading rebounder, in 4 years at Wake Forest he collected 1570.

Answer: Tim Duncan
C. The all-time leading assist man, in 4 years at Duke he had 1076 to players such as Christian Laetner and Grant Hill.

## Answer: Bobby Hurley

17.) Name the following American Lakes:
A. Oval in shape, this lake contains Ometepe Island and is fed by the Tipitapa river.

Answer: Lake Nicaragua
B. Fed by the Catatumbo River, it basin supplies two-thirds of its nation's total petroleum output.

Answer: Lake Maracaibo
C. Fed by its namesake, Saskatchewan, and Red rivers it is drained by the Nelson River and contains Hecla, Deer, and Black islands.

Answer: Lake Winnipeg
18.) Answer the following about Ballets involving Vaslav Nijinsky:
A. Conceived by Théophile Gautier, it was created in honor of Carlotta Grisi. It was performed in the second season of the Ballet Russes. Nijinski caused a scandal when he refused to wear shorts over his tights.

## Answer: Giselle

B. A 1913 ballet choreographer by Nijinsky, it portrayed prehistoric pagan Russian rituals and ignited a riot in Paris. When Nijinksy discovered that his sister, who was to dance the Sacrifice, was pregnant he became violent and nearly killed her husband, Alexander Kotchetovsky.

Answer: Rite of Spring (Le Sacre du primtemps)
C. A ballet choreographed by Fokine with music by Weber, one legend tells of a dramatic leap Nijinsky made through an open window as exited the stage.

Answer: The Specter of the Rose (Le Spectre de la rose)
19.) Answer the following concerning fictional places from Literature:
A. Set in Ruritania this Anthony Hope work follows the adventures of Rudolf Rassendyll

Answer: Prisoner of Zenda
B. The fictional city of One Hundred Years of Solitude that was founded in the 1830's by the Buendia Family.

Answer: Macondo
C. In this novel Charles Gould runs a silver mine of national importance in the imaginary nation of Costaguana.

## Answer: Nostromo

20.) Answer the following about the work of scientist in the news:
A. This man completed a famous theorem, that any compact real manifold is diffeomorphic to a component of a real-algebraic variety, in 1952.

Answer: John Forbes Nash
B. Nash won the 1994 Nobel prize for his development of this field

Answer: Game Theory
C. Following his work in Game Theory, Nash worked this company, a splinter of the Douglas Aircraft Company, attempting to apply game theory to military and diplomatic strategy of the Cold War.

Answer: RAND

