## JCV 8 - February 2, 2002 round 1

## Virginia packet

## Questions by Chris, Katie, and Jason (who is not affiliated with quizbowl)

## Tossups

1.)In 1933 he went to Germany to defend the alleged burners of the Reichstag. Earlier, acting as the poor man's Clarence Darrow, he had appeared on the side of the defense for the American Mercury censorship case, the Scopes trial, the Sweet segregation-violence case, the Scottsboro case, and, perhaps most famously, the Sacco-Vanzetti case. For ten points, name this American lawyer who defended, usually without charge, persons accused in many prominent civil-liberties cases in the 1920s.

## ANSWER: Arthur Garfield Hays

2.)It was commissioned by Lorenzo the Magnificent as the wedding present offered to his cousin Lorenzo di Pierfrancesco dei 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: La Primavera or The Allegory of Spring

3.)Used to construct the contract curve, which is the set of all Pareto optimal allocations, it is drawn on two axes and consists of two indifference curves one convex to each axis. A graph with quantities of available goods as dimensions FTP name this analytical tool that is named for a British economist and used to study the behavior of two economic agents based on preferences for goods and services when production of those goods is held constant.
Answer: Edgeworth Box
4.)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 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
5.)The lead-acid reaction used in batteries; nickel plus two silver ions becomes $\mathrm{Ni}^{2+}$ plus 2 Ag ; zinc plus two protons reacts to form $\mathrm{Zn}^{2+}$ and hydrogen gas; electrolysis; the corrosion of iron. FTP, identify this process, the movement of whose electrons is memorialized by Leo the lion growling.

ANSWER: Redox or Reduction-Oxidation reactions
6.)In 1617 Roman Catholic officials closed Protestant chapels in Broumov and Hrob, violating guarantees of religious liberty laid down in the Letter of Majesty. In response, the appointees to safeguard Protestant rights called an assembly at Prague, where imperial regents William Slavata and Jaroslav Martinic were found guilty of violating the Letter of Majesty. For ten points, these events led to what May 23, 1618 event in which Slavata, Martinic and their secretary were thrown from the windows of Prague Castle?

## ANSWER: the Defenestration of Prague

7.)It works by insuring that every node's subtrees differ in height by no more than one. This data structure uses single and double rotations to rebalance the tree after every insert and delete. FTP, name this algorithm that requires $\mathrm{O}(\log \mathrm{n})$ time.

ANSWER: $\underline{A}$ delson- $\underline{V}$ elskii-Landis Tree (accept "AVL criterion" on first sentence)
8.)In this Arthurian Romance, our titular hero sets off to avenge his cousin at the enchanted fountain and ends up killing fair Laudine's husband, so he marries her and takes over the task of guarding the fountain. Not content with a quiet life, he goes off questing, forgets to come back, and ends up mad in the woods. Eventually he becomes the Knight With the Lion and wins his lady fair back. For ten points, name this Romance, which was written in different versions by Chretien de Troyes and Hartmann von Aue.
ANSWER: Yvain or Iwein
9.)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
10.)Barium Titanate, Rochelle Salt, and Potassium Niobate are crystals that exhibit this property, in which their dielectric constants can become enormous near their Curie temperature. FTP, name this property of crystals characterized by a permanent spontaneous electric polarization, whose name draws an analogy to materials with spontaneous magnetic moments.

Answer: ferroelectricity
11.)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
12.)Born in Sines, Portugal in 1469 , he went from there to defend the Portuguese colonies on the Guinea coast against the French. After the death of his father, he was sent on his father's mission; set out on 8 July 1497, anchored in St Helena and Mossel Bays. He named the coast of Natal and continued on through Mozambique, Mombassa, and Melinda. Finally, on 20 May 1498, he reached his goal, the harbor of Calicut, India. For ten points, name this explorer, famous for discovering the sea route to the East Indies.

ANSWER: Vasco da Gama
13.)Educated in Argentina, his most famous work, centered on the writer Horacio Oliveira, invites the reader to rearrange the novel. Moving to Paris due to dissatisfaction with the Perón government, he works include: "Bestiary", Cronopios and Famas, and A Manual for Manuel. A proponent of magic realism FTP name this author of Rayuela or Hopscotch whose given name was Julio Denis.

Answer: Julio Cortazar
14.)Characterized by jidaimono, or historical dramas, and sewamono, or contemporary plays, many of the themes like love, righteous vengeance and honor were adapted directly from the bunraku stage. Like No, it is an all-male theater, but its lavish styles contrast sharply with the more conservative and restrained No drama. For ten points, name this Japanese drama form which has created a thriving celebrity subculture that endures today.

ANSWER: kabuki
15.)His generals in the West, Belisarius and Narses, destroyed the Vandal kingdom in Africa and defeated the Ostrogoths in Italy, retaking Rome in 536. Other highlights of his reign included the construction of Santa Sophia in Constantinople. No wonder 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
16.)During his expedition to Kufa, he and his company were ambushed and massacred by Syrian Muslims loyal to the Umayyad Caliph, Yazid. This martyrdom is still celebrated today by Shi'ite Muslims with a ta'ziya, or "passion play." For 10 points, name this grandson of Muhammed whose martyrdom at Karbala marked the genesis of Shi'ism as a political movement within Islam.

ANSWER: Husayn or Hussein
17.)Applicable only to Holomorphic functions, it can be defined for complex functions by the Cauchy integral formula. Simplifying operations like integration and differentiation such that they may be done on a computer, the form may be taken over any number of real variables and may include a Cauchy or Lagrange remainder.
Containing a special subset about the origin called Maclaurin series FTP name this series expansion of a function about a point named for a British Mathematician.

Answer: Taylor Series
18.)After a fire destroys her home, she is admitted into Rutledge Private Clinic and Asylum. There she is the subject of Doctor Hieronymous Q Wilson's experiments for ten years. When she answers a call for help, she finds herself 'down the rabbit hole' once more, but this time the landscape is dark and corrupted. Armed only with a knife and other 'toys' she finds along the way, she must defeat the evil Red Queen. For ten points, name her, and you name this popular computer game by Electronic Arts.

ANSWER: American McGee's Alice
19.)Romanticized in the 19th century by George MacDonald, her Hebraic character was much more frightening. Commonly portrayed with bird's feet, she is a female demon of the night who flies around searching for newborn children to kill and sometimes sleeps with men to seduce them into propagating demon sons. New mothers and their children were protected with amulets against her as late as the $18^{\text {th }}$ century. For ten points, name this woman, declared in the middle ages to be the wife, concubine, and grandmother of Satan, but more often regarded as Adam's first wife.

## ANSWER: Lilith

20.) He is known from Ovid and plays relatively little role in traditional Greek mythology, except that his name means "he who molds, or forms." The legends have grown up around him, however. He lies on a ebony bed in a dim-lit cave, surrounded by poppies. He appears to humans in their dreams in the shape of a man. He is responsible for shaping dreams, or giving shape to the beings which inhabit dreams. For ten points, name him, mentioned as the son of Hypnos, the God of Sleep.

ANSWER: Morpheus
21.)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. 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
22.) When her husband, Florestan, is imprisoned by Pizarro, she disguises herself as a man and takes work as the jailor Rocco's assistant in hopes of aiding her husband. Rocco's daughter falls in love with her disguise, and Rocco approves their engagement. She earns the special task of bringing her husband food- but she is also assigned the task of digging his grave! When the grave is ready, Pizarro enters to kill her husband and she throws herself between them, thus saving her husband's life. For ten points, name this opera heroine, who disguised herself as Fidelio in the Beethoven opera.

ANSWER: Leonore (accept also Fidelio on an early buzz, although certainly not after Fidelio is mentioned!)
23.)The pretext for revolt was the introduction of the new Enfield rifle; to load it one had to bite off the ends of lubricated cartridges. After some members of the Bengali army
refused to bite 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, which resulted in the abolishment of the East India Company?

ANSWER: Sepoy Mutiny
24.)His novel Headlong was a candidate for the 1999 Booker Prize, but this versatile writer is better known as a playwright. Until recently, he was best known for the farce Noises Off, but he has achieved greater renown from a recent, far more cerebral, play. FTP, name this Brit, a winner at the 2000 Tony Awards for his play Copenhagen. Answer: Michael Frayn
25.)A capital of European culture, it was a center for the arts and technological advances; home to a stunning national theater and several fine universities and the first city in Europe to install gas lamps. It is also famous for its many beautiful churches in many different styles, including the Ruler's Church at Cartea Veche, the Cretulescu Church, and the Stavropoleos Church. Vlad the Impaler mentioned it for the first time on Sept 20 1459 , and 200 years later, this city, for ten points, became what capital of Romania?

ANSWER: Bucharest
26.)Nominated for ten Academy Awards, it is the story of a princess who rebels against her royal obligations and sets off to explore Rome on her own. She meets an American newspaper man who, seeking an exclusive story, feigns ignorance of her true identity. His plan falters, however, as they fall in love. Starring Gregory Peck and Eddie Albert, this film introduced Audrey Hepburn to the world. For ten points, name this 1953 film, for which Audrey Hepburn won an Oscar.

ANSWER: Roman Holiday

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## Boni

1.)Answer the following about the Triple Alliance War for 10 points each.
[10] Under his reign, Brazil aided in the overthrow of the Argentine dictator Juan Manuel de Rosas in 1852. He went on to lead Brazil in the Triple Alliance War. ANSWER: Pedro II
[10] For five points each, name the other two members of the Triple Alliance who fought the Paraguayan War with Brazil from 1864-70. ANSWER: Uraguay and Argentina
[10] The eventual result of the costly and bloody Triple Alliance War was the overthrow of this Paraguayan dictator, known for causing the near destruction of

Paraguay in that War.
ANSWER: Francisco Solano López
2.)FTPE, identify each of the following from physical chemistry.

1. For a black body, the energy density of the electromagnetic field inside a container is proportional to the fourth power of the temperature. Identify this equation, named for two scientists.
Answer: Stefan-Boltzmann Law
2. This law sought to explain blackbody radiation from a classical viewpoint. It was formulated by assuming an electromagnetic field was a collection of oscillators of all possible frequencies where the presence of radiation was signified by a certain frequency being excited. It is also named for two scientists
Answer: Rayleigh-Jeans Law
3. Because the Rayleigh-Jeans Law is very inaccurate at low wavelengths, this result predicts that oscillators of low wavelengths are strongly excited even at room temperature.

## Answer: ultraviolet (UV) catastrophe

3.)Answer the following about the reign of Alexander I for ten points each.
[10] Perceived as disastrous by the Russian people, Alexander I signed these treaties with Napoleon after Napoleon's defeat of Prussia at Jena and Auerstadt. In them, he agreed to the Continental System and the Grand Duchy of Warsaw. ANSWER: Tilsit Alliance Treaties
[10] After Napoleon's invasion of Russia, the French advanced nearly to Moscow where this bloody 15 hour battle took place on September 7, 1812. Although Napoleon won, his catastrophic retreat assured Alexander's position of victor. ANSWER: Battle of Borodino
[10] After the Second Treaty of Paris, Alexander, inspired by piety, formed this, which was supposed to bring about a peace based on Christian love to the monarchs and peoples of Europe.
ANSWER: Holy Alliance
4.)Answer the following about a certain modern German director for the stated number of points.
[10] For ten, he directed, among other things, Run Lola Run, released in 1998. ANSWER: Tom Tykwer
[5] For five, name his current love interest, and the star of Run Lola Run, whose portrayal of Lola earned her a role in the 2001 film Blow with Johnny Depp. ANSWER: Franka Potente
[15] For fifteen points, name Tom Tykwer's much acclaimed 2000 film, which stars Franka Potente again, as nurse Sissi.
ANSWER: The Princess and the Warrior or Der Krieger und die Kaiserin
5.)Given a famous Italian Renaissance Madonna, give the painter. Ten points each, five if you need an easier clue.
[10] The Madonna of the Goldfinch
[5] The School of Athens
ANSWER: Raphael
[10] The Madonna of the Cherries
[5] Danaë
ANSWER: Titian
[10] The Madonna of the Pomegranate
[5] The Birth of Venus
ANSWER: Botticelli
6.)For ten points, given a brief description of a branch of cultural anthropology, give the branch.
[10] Created by Jap Kunst in the 1950s, the field has expanded to include Japanese art music, New Guinean tribal music, African court music, English folk songs, jazz, and the social and financial structure of European-American pop music.
ANSWER: ethnomusicology
[10] Theorized by Leslie White in 1949, it is defined by him as "the application to culture of the organismic analogy of structure-function that Spencer had applied to society" or, simply, the scientific study of culture.
ANSWER: culturology
[10] Established as a professional field with the work of Bronislaw Malinowski in the Trobriand Islands of Melanesia in 1915, it is a descriptive study of a particular human society or the process of making such a study.
ANSWER: ethnography (note, not to be confused with ethnology, which is different)
7.) Given works, name the composer 30-20-10.
[30] The Golden Cockerel, Sadko
[20] Scheherezade, The Snow Maiden
[10] Russian Easter Overture, Flight of the Bumblebee
ANSWER: Nikolai Rimsky-Korsakov
8.)Name the following forms of Buddhism for ten points each from a brief description.
[10] It recognizes as saints, arhats, those who have attained Nirvana and hence salvation from the compulsory circle of rebirth by their own efforts. The Buddha himself is viewed as the first Buddhist saint.
ANSWER: Theravada Buddhism
[10] It rejects the belief that only monks may attain salvation and, instead, upholds the belief that there is a path to redemption for all people, irrespective of their social standing.
ANSWER: Mahayana Buddhism
[10] Embodying, among other views, Tantrism, it is mainly represented by Tibetan Buddhism. In addition to the arhats of other branches, it also accepts as saints those who are regarded as incarnations of saints, scholars of the past, deities, or demons.
ANSWER: Vajrayana Buddhism
9.)Identify the following constellation of the zodiac from its component stars for 15 points or from its mythological inspiration for 5 .

1. For 15 points, ANTARES, Graffias, Dschubba

For 5 points, This was the beast which killed Orion
Answer: Scorpio
2. For 15 points, ALDEBARAN, ALNATH, Hyadum I

For 5 points, One of the many animals hunted by Orion, the Greeks saw it as Zeus in the disguise he used to seduce Europa.
Answer: Taurus
10.)Name the following types of speciation, FTP each:
a) Also called geographic speciation, this type occurs when two populations of a species become
reproductively isolated as a result of being split into geographically separate habitats.
Answer: allopatric speciation
b) Similar to allopatric speciation, this type occurs when populations relocate into distinct but contiguous habitats.

Answer: parapatric speciation
c) This type of sympatric speciation results from a genetic event such as polyploidy or heterozygote
disadvantage which results in the reproductive separation of two populations.
Answer: stasipatric speciation
11.)For 5 points each and a bonus 5 for all correct, name the key players in the Cuban Missile Crisis given their job title.
[5] U.S. Secretary of State
ANSWER: Dean Rusk
[5] Soviet Ambassador to the United Nations
ANSWER: Valerian Zorin
[5] U.S. National Security Adviser
ANSWER: McGeorge Bundy
[5] Soviet Ambassador to the United States
ANSWER: Anatoly Dobrynin
[5] U.S. Chairman of the Joint Chiefs of Staff ANSWER: General Maxwell Taylor
12.)Name the following Jane Austen novels from description, for ten points each.
[10] Catherine goes to visit her friends Eleanor and Henry Tilney at their father's country home. A voracious reader with an overactive imagination, Catherine becomes convinced that General Tilney killed his wife in this Gothic spoof. ANSWER: Northanger Abbey
[10] Fanny, a poor relation, comes to live with the Bertram family. After an entanglement with the neighbor Henry Crawford, she is sent home and only restored after Henry's villainy is exposed.
ANSWER: Mansfield Park
[10] Anne lives a quiet spinster life with little hope until the day the dashing Captain Wentworth returns. He had courted her eight years before, but she had refused him. They receive another chance in this, Jane Austen's last completed work. ANSWER: Persuasion
13.)Answer the following about quarks FTPE:
a. F5PE, quarks come in these two magnitudes of electric charge:

A: $\underline{1 / 3}$ and $2 / 3$
b. Rounding to the nearest whole number, the lightest quark, the up, has this much mass, in electron volts?
A: $5 \mathbf{M e V}$ or 5 Mega-electron volts or five million eV
c. This is the class of particles, divided into mesons and baryons, composed of quarks.

## A: Hadrons

14.)For 10 points each, identify these individuals associated with the anti-government militia movement.
[10] This survivalist became a focal point for anti-government violence when federal agents accidentally killed his wife and son during a 1992 standoff at Ruby Ridge, Idaho.
ANSWER: Randy Weaver
[10] This religious cult leader provoked more violence when ATF agents raided his compound in Waco, Texas, in 1993.
ANSWER: David Koresh
[10] This indicted co-conspirator of Timothy McVeigh is serving a life sentence for his complicity in the Oklahoma City bombing, and was a former active member in the Michigan Militia.
ANSWER: Terry Nichols
15.)Given a world political figure, tell whether he or she's currently head of government, head of state, both, or neither F5PE.
a. Queen Elizabeth II of Britain
b. Pervez Musharraf
c. Jean Chretien
d. Gerhard Schröder
e. Mary Robinson

Refugees)
f. Mohammed Khatami leader")

A: state
A: both
A: government
A: government
A: neither (she's UN High Commisioner for
A: state (although he's not "supreme
16.)Name the following poems with a common bond:

1. Included in A Shropshire Lad, this work notes that the title figure is fortunate to be dying in his Prime.
Answer: "To An Athlete Dying Young"
2. Considered by Swift to be the greatest little poem in the English language, as he sees the titular bird, the author realizes that nature is guided by divine providence.
Answer: "To a Waterfowl"
3. Published along with Prometheus Unbound, poet longs to be the title figure and muses that it has never experienced the disappointment of human life.
Answer: "To a Skylark"
17.)Answer the following about Indian Mythology:
4. This god rides on Garuda, a bird deity, and during creation slept on the coils of Shesh Nag, the serpent God.
Answer: Vishnu
5. This former sky god, he became a god of the sea and his mount was Makara: part crocodile, part part shark, part dolphin.
Answer: Varuna
3.Shiva's Mount this white, every Siva temple has the figure of a white, humped bull facing the entrance so that he may perpetually gaze on the lord in his symbolic form, the linga or phallus. '
Answer: Nandi
18.)Given a German state, give the capital for five points each and a five point bonus for all correct.
[5] Brandenburg ANSWER: Potsdam
[5] Schleswig-Holstein ANSWER: Kiel
[5] Hessen ANSWER: Hannover
[5] Baden-Württemburg ANSWER: Stuttgart
[5] Saxony ANSWER: Dresden
19.)Given clues, name the following island nations that used to be colonies for ten points each.
[10] These islands, south-east of Puerto Rico became an independent state in 1981. The government is centered at the capital of St. John's. ANSWER: Antigua and Barbuda
[10] These islands, located between the South Pacific and the Coral Sea, became independent in 1975. The government is centered at the capital of Port Moresby. ANSWER: Papua New Guinea
[10] These islands, north of Trinidad and Tobago, were granted independence from Great Britain in 1979. The government is centered at the capital of Kingstown. ANSWER: St Vincent and the Grenadines
20.) Given some clues, name the Golden Girl (first name for five, last name for five).
[10] This character, played by Betty White, is renowned for telling long and often pointless stories about her old hometown, St Olaf. ANSWER: Rose Nylund
[10] Rue McClanahan plays this character, a self-confessed slut who is always looking
for men and ready to share stories of her sexual conquests around the kitchen table with a slice of cheesecake and coffee.
ANSWER: Blanche Devereaux
[10] This character, played by Estelle Getty, is other Golden Girl Dorothy's outspoken Sicilian mom. She's lives in fear of being sent back to Shady Pines Retirement Home.
ANSWER: Sophia Petrillo
21.) Given some songs, name the band 30-20-10.
[30] Maybe Someday, The $13^{\text {th }}$, In Between Days
[20] A Letter to Elise, Mint Car, The Love Cats
[10] Charlotte Sometimes, Just Like Heaven, Boys Don't Cry
ANSWER: The Cure
22.)Given an early American war, name the European Mirror war for ten points each. So if I said, for example, "French and Indian War" you would say "Seven Years War."
[10] King William's War
ANSWER: War of the League of Augsburg
[10] Queen Anne's War
ANSWER: War of the Spanish Succession
[10] King George's War
ANSWER: War of the Austrian Succession
23.)Answer the following about a Latin American Author:
6. 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
7. 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)
8. 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").
24.) Given a culture and a domain, name the goddess for five points each and a five point bonus for all correct.
[5] Norse, Love
ANSWER: Freya
[5] Hawaiian, Fire
ANSWER: Pele
[5] Japanese, Sun
ANSWER: Amateratsu
[5] Greek, Hearth
ANSWER: Hestia
[5] Egyptian, Sky

## ANSWER: Nut

25.)Name the following Ibsen plays from a brief description for ten points each.
[10] Hjalmar is a weak man and his good friend Gregers seeks to improve him by confronting him with the truth. Hjalmar, in the process, comes to believe that his beloved daughter, Hedvig, may not be his. He rejects her and she kills herself. ANSWER: The Wild Duck
[10] Mrs. Alving must confront the past in order to move into the future. Her lauded husband was not, in fact, a hero, but rather a bad man who had many illicit relationships, fathered Regina, the servant, and gave his son hereditary syphillus. ANSWER: Ghosts
[10] Johannes' invalid wife, Beata, sacrificed herself to enable him to marry strong Rebecca, but when he learns that it was Rebecca's idea, he refuses to believe that Rebecca loves him unless she sacrifices herself; they drown themselves together. ANSWER: Rosmersholm

