Freeze Your Buzz Off III Wichita State University Questions by Flung From the Ivory Tower

1. Darwin studied the insect-aided fertilization of the domestic and foreign types, and he correctly predicted the existence of a Madagascar moth with a ten-inch proboscis based on the shape of one species' flowers. This order of monocots has been found above the Arctic Circle, but a plurality of species live in tropical cloud forests. Both vanilla and lady's slipper belong to this group. For ten points - identify this order of flowers prized by horticulturalists, especially the detective Nero Wolfe.
Answer: _orchids_ (Orchidales)
2. It began with a description of a late-night auto accident caused by two cyclists. Published in Le Figaro in February 1909 by a man who styled himself the "caffeine of Europe," it announced it would "free Italy from her numberless museums," and declared "a new form of beauty, the beauty of speed." For ten points - identify this manifesto or the forward-looking artistic movement it heralded, the brainchild of Filippo Marinetti.
Answer: Foundation and Manifesto of _Futurism_ (Futurismo)
3. Electrons obey Fermi statistics, and they never attract one another - right? Well, not exactly. These units fall into a Bose condensate below the transition temperature, and are first formed when spin-opposite electrons interact attractively by inducing small lattice displacements. For ten points, identify these low-temperature electron partnerships, the core idea of the BCS theory of superconductivity.
Answer: _Cooper pairs_(prompt on superconductivity before last phrase)
4. In France, Baron Elie was a lover of Pamela Harriman. In England, the distinguished zoologist Lionel Walter, 2nd Baron, was the recipient of the Balfour Declaration. His father, Lionel Nathan, 1st Baron, supplied four million pounds on no notice so the British government could buy control of the Suez Canal Company. For ten points -- name this influential European family, begun by the banker Mayer Amschel and named for their red shield.
Answer: _Rothschild_
5. Some big stones and rocks are in the northeast, while the northwest has a nice place for picnics and a sandy pit to play in. In the south are the thistle patch and the place where the Wozzle wasn't. The heffalump trap is just south of the six pine trees. The bee tree with the honey is sort of between My House and Rabbit's. For ten points - where is the home of Kanga, Eeyore, Piglet, and Pooh?
Answer: the _Hundred-Acre Wood_
6. 5,000 was to be threshold for a territory. 60,000 was to be the threshold of a state. No fewer than three and no more than five states were eventually to be created. Indians were to be treated decently and other basic freedoms guaranteed to inhabitants. These were the major provisions of--for 10 points--what 1787 ordinance that established the principle that new states were to be equal, not inferior, to the original 13 ?
Answer: The _Northwest_Ordinance (of 1787)
7. Resident aliens could not buy land in the region of the Hittites, so Ephron offered this site and the field of Machpelah as a gift. The recipient, however, insisted on paying the market price of 400 shekels; this began to establish his people's right to the country God had promised them. Today the area has become part of the city of Hebron, which was ceded by Israel to the Palestinians. For ten points -- name this cave that is the burial place of Sarah, Isaac, and Abraham.
Answer: _Tomb of the Patriarchs_
8. Attending their concert were Aleister Crowley, May West, Edgar Allen Poe, and Shirley

Temple. Mohandas Gandhi was refused admittance by EMI, and Hitler was unable to attend. The first number was performed by the one and only Billy Shears, and for an encore they performed "A Day in the Life." For ten points -- name this one-album musical group from 1967, alter egos of the Beatles.
Answer: _Sgt. Pepper's Lonely Heart's Club Band_
9. The influence of his writing on Wilson was so strong that he was sent as a negotiator to the Versailles conference. A co-founder of The New Republic, he won two Pulitzer Prizes for his column in the New York Herald Tribune. In the 1920's, two of his books questioned the possibility of true democracy, suggesting the dramatic change in the speed of information flow to the masses favored the propagandists and demagogues. For ten points - name this author of _The Phantom Public_, and _Public Opinion_.
Ānswer: Walter _Lippmann_
10. The Romans made it with thirty percent lead; the resulting plates were dangerous to use with acidic foods. Gothic documents record debates over whether it was usable for Communion chalices when gold and silver were too expensive. The Temperantia Dish is a famous relief piece by the metalsmith Francois Briot. Today's alloy is lead-free, and contains about one percent copper and nine percent antimony, often with trace amounts of bismuth. For ten points identify this soft, ductile alloy whose primary component is tin.
Answer: _pewter_
11. It was extended by 1972's $\sim$ Argersinger v. Hamlin $\sim$ to misdemeanor cases; it overturned the 1942 case $\sim$ Betts v. Brady $\sim$ in ruling that, even at the state level, the Due Process Clause applied to all defendants. The immediate beneficiary was a certain Clarence who had been convicted of burglarizing a pool hall but who was freed after a court-appointed lawyer argued his appeal. For 10 points--name this 1963 case ruling that, in all cases, at all levels, the court must appoint lawyers for the indigent.
Answer: _Gideon_v. Wainwright
12. "Washington's Birthday," "Decoration Day," "The Fourth of July," and "Thanksgiving and Forefathers' Day" form his Holidays Symphony. Other works include the One Page Sonata and Central Park in the Dark. For ten points -- identify this insurance man who showed his mastery of polytempi and polychromacy in such works as Three Places in New England.
Answer: Charles _lves_
13. He was the subject of Ruggiero Leoncavallo's first opera, a novel and a play by Alfred de Vigny, and a famous painting by Henry Wallis. Wordsworth called him "the marvelous Boy," Coleridge wrote a Monody on his death, and Keats dedicated his Endymion to this teenaged forger of medieval verse. For ten points - identify this poet, hero of the Romantic movement, and true author of the poems of Thomas Rowley.
Answer: Thomas _Chatterton_
14. His nickname actually meant "without a plan" or "without council." He came to the throne while in his teens upon the murder at Corfe in 978 of Edward. For ten points -- identify this English king whose poor council lead to the formation of the Danegeld and who was defeated by Canute in 1016.
Answer: _Æ_elræd Unræd_ or_Æthelred the Unready_ or_Æthelred II_
15. In the case of Poiseuille flow, it is inversely proportional to the discharge rate. Newton, in the first mathematical analysis of it, established that in many cases of laminar flow it varied directly with the shear stress. Bernoulli's formula simply ignores the issue entirely. For ten points, identify this physical property of fluids that also comes in bulk and kinetic types, which makes molasses harder to drink than water.
Answer: (shear or absolute) _viscosity_
16. In 1954 Gerald Gardner, a member of a Rosicrucian cult, published a book of secrets he said came from his mentor, Old Dorothy. More likely he was inspired by now-discredited work of anthropologist Margaret Murray, who claimed an organized pre-Christian religion had pervaded Europe and survived today. Gardner probably created the practices of "drawing down the moon" and "casting the circle." He is also the origin of the salutation "blessed be", and coined the popular name of this pagan religion. For ten points -- name this 20th century style of witchcraft.
Answer: _Wicca_
17. _Ask Your Mama: Twelve Moods for Jazz_ and _Fine Clothes to the Jew_: poetry collections. _Not Without Laughter_ and _Laughing to Keep from Crying_: fiction. _Tambourines to Glory_ and _Mulatto_: plays. _The Big Sea_ and _I Wonder as I Wander_: autobiographies. For ten points - name this versatile author of "The Blues I'm Playing" and "Montage of a Dream Deferred."
Answer: Langston _Hughes_
18. Having repeatedly failed the civil service exams and having picked up some Protestant missionary tracts in Canton, Hung Hsiu-ch'uan (Shee-oo choo-an) began to believe he was Jesus' little brother whose mission was to exorcise China of evil demons. For ten points -identify the uprising led by Hung and his followers which managed to capture Nanking and hold it for a decade before being ousted by the Manchus.
Answer: _Taiping_ or Heavenly Kingdom Rebellion
19. The most valuable type is cymophane (sy-mo-fayn), a version of chrysoberyl that has tiny parallel fractures. Crocidolite (krok - ID - o - LITE) and quartz versions get the characteristic effect from embedded asbestos fibers, while the corundum sort is just a flawed star sapphire. For ten points -- name this type of cabochon-cut gemstone, best worn by those who want that feline look.
Answer: _Cat's-eye_
20. Vaughn Jones and Edward Witten won Fields Medals for their work relating these objects to quantum field theory. In the last century, Lord Kelvin thought that their formation in the luminiferous ether was responsible for atoms. Like integers, they come in prime and composite types, and you cannot get a plain loop from any product of two of them. For ten points -- name these objects whose practical counterparts come in square, sheet bend, and overhand types.
Answer: _knots_
21. Its principal components were a distribution to the states of money arising from the sale of land, a protective tariff, a national bank, and extensive road-building and other development at the nation's expense. It was intended to unite the industrial East and agricultural West and, possibly, to cement the political fortune of a certain Representative from Kentucky. For 10 points--give the uncreative name of this "System," the apple of the eye of Henry Clay.
Answer: The _American_System
22. The Historic Fart, the Three Apples, The Thief and his Monkey, the City of Labtayt, the Hasish Eater, and Sinbad the Porter are all tales collected together under the meta-fiction of King Shahriyar's plans to marry and murder one virgin a day. For ten points -- identify this epic collection of Indian, Persian, and Arabic folk tales.
Answer: The _Thousand and One_Arabian _Nights_ (accept equivalent answers)
23. Roosevelt and Andrew Jackson. Edsel Ford and Rockefeller. Edward VII, Princess Astrid, Prince Olaf, Queen Mary, Duke Ernst, and Queen Maud. For ten points -- identify this continent that also has geographical features named Amundsen, Scott, and Byrd.
Answer:_Antarctica_


Bonuses

1. Given a work of criticism, literary or social, identify the author for ten points. If you need a second work by the same author, you'll receive 5 .
A. The Quintessence of Ibsenism

5 - Heartbreak House
Answer: George Bernard _Shaw_
B. 10 - The Critic as Artist

5 - Lady Windermere's Fan
Answer: Oscar _Wilde_
C. 10-Culture and Anarchy

5 - Dover Beach
Answer: Matthew _Arnold_
2. Let's take a trip to the underworld. Identify the following for 15 points each.

1) It was the place where Uranus imprisoned the Titans. An abyss below Hades, originally only the worst sinners (like Ixion) were condemned to this pit. Later, it became almost synonymous with Hades.
Answer: Tartarus
2) One of the roots of Yggdrasill (IG-draz-ill) ends here, the abode of the goddess Hel. It holds Hvergelmir (HVER-gel-meer), one of the three wells at the base of the World Tree.
Answer: Niflheim (NIF-el-haym)
3) The Mayan place of the dead, according to their cosmological saga, the Popol Vuh, it was ruled over by many gods, including Pus Master and Kisin, the Stinking One.
Answer: Xibolbu (SHE-boll-boo) or Xibalba
3. You have two heat reservoirs at temperatures 100 Kelvin and 400 Kelvin. Answer the following about an engine converting the heat difference to work for the stated number of points.
A) One important theoretical engine consists of four reversible stages - isothermal expansion, adiabatic expansion, isothermal compression, and adiabatic compression. Name it for five points. Answer: _Carnot__cycle_or engine
B) For five points, what is the total change in entropy over one iteration of the Carnot cycle in this situation?
Answer: _zero_
C) The efficiency of an engine is the ratio of work extracted to heat input. For ten points, compute the efficiency of a Carnot engine set up between the two reservoirs. You have 15 seconds.
Answer: _0.75_(Mod: the quickest computation is 1 - hot/cold = $1-100 / 400$ )
D) Another reversible engine is set up between the reservoirs, replacing the Carnot engine. Carnot's theorem says there is a limit to how different the two engines' efficiencies can be. For ten points, what is the largest possible difference between the efficiencies of the two engines? Answer: _zero_ (Carnot's theorem: in a given situation any two reversible engines will have the same efficiency)
4. Four men served as Secretary of State under President Truman. For 10 points each-A. Name the first, a man he inherited from Franklin Roosevelt, who led the U.S. delegation that drafted the U.N. charter and later served as the first U.S. delegate to that body.
Answer: Edward (Reilly) _Stettinius_
B. Name the third, a general who won a Nobel Peace Prize for his plan to rehabilitate European economies after World War II so that democracy could thrive.
Answer: George (Catlett) _Marshall_
C. Name the fourth, most prominent for his autobiography, $\sim$ Present at the Creation $\sim$, that detailed the genesis of America's Cold War policy.
Answer: Dean (Gooderham) _Acheson_
5. Identify these people from their agonies for ten points each, or more information for five.

10 - His last walk was along the Via Dolorosa.
5 - That Jerusalem street was named for his torment as he dragged the instrument of his execution to Golgotha.
Answer: _Jesus_ _Christ
10 - He was felled by the Dolorous Blow.
5 - This keeper of the Holy Grail lingered in pain that was only relieved when Perceval asked him the right question.
Answer: the _Fisher King
10 - He was brought down by his involvement with Dolores Haze.
5 - After she left him, he killed Claire Quilty for stealing his 'Lolita'.
Answer: Humbert _Humbert_
6. Identify these works for pyros for ten points each.
A. Guy Montag is a fireman in a futuristic state where books are forbidden.

Answer: _Fahrenheit 451
B. Colonel Sartori Snopes watches his father in court, follows him to their new employer's home where dad tracks horse dung all over a rug, and runs away at the end after warning about his father's impending titular activity.
Answer: "Barn Burning"
C. The stuttering Buddhist acolyte Mizoguchi can't handle the contrast between his own ugliness and the malignant beauty of the Kyoto temple where he studies. He tries to free himself from his desire to be beautiful by burning the temple down.
Answer: _The Temple of the Golden Pavilion_or Kinkakuji
7. Answer these questions about a Japanese art form for ten points each.
A. Translated as "Pictures of the floating world," this form of woodblock prints was the principle art form during the Edo period.
Answer: _ukiyo-e_ (ookie-yoh-ay)
B. The most famous practitioner of ukiyo-e was born in the Honjo district of Edo in 1760, and his most famous work consists of thirty six views of a Japanese landmark, including "The Breaking Wave Off Kanagawa". For ten points each, name the artist and the geographic feature.
Answers: _Hokusai_ and_Mt. Fuji_
8. Answer these questions about archetypes for the stated number of points.
A. For ten, this psychologist developed the idea of the collective unconscious which contained archetypes.
Answer: Carl Gustav _Jung_
B. For five points each, this pair of archetypes are the complementary male and female inner figures.
Answer: _animus_, _anima_
C. For ten points, name any one of the remaining three archetypes that Jung felt played a major role in influencing personality.
Answers: _persona_, _shadow_, _self_
9. Answer these questions about the rise of Islam in the Middle East.
A. Upon the death of Mohammed, this man, whom Mohammed chose to lead the faithful in prayer, was acknowledged by most as the first caliph.
_Abu Bakr_
B. This son-in-law of Mohammed became the third caliph in 644 after the assassination of his father. He was himself assassinated in 656 after members of the army in Egypt came to present him with grievances concerning his rule.
_Uthman_or Othman
C. One of the murderers of Uthman was this man, a son of Abu Bakr.
_Abdallah_
10. Answer the following related to a certain infinite series, for ten points each.
A. The canonical example of a Dirichlet series, for a fixed complex exponent 's', our series is the sum from $n=$ one to infinity of $n$ to the negative s power. Name it.
Answer: Riemann _zeta_function
B. The Riemann hypothesis conjectures that the Riemann zeta function can only be zero if the exponent s has a particular number for its real part. What real number is that?
Answer: _1/2
C. The Riemann zeta function is intricately tied up with the distribution of a certain subset of the positive integers. Analysis of zeta's properties leads to a clever proof that this set has quantity roughly ' $n$ over natural log of $n$ ' as $n$ gets large. Name this set of numbers.
Answer: _primes_
11. There are seven positions in a National Football League officiating crew. The premier official is the referee. For five points apiece, name the other six types of NFL officials.
Answer: _umpire_, _linesman_, _line judge_, _side judge_, _field judge_, _back judge_
12. Identify the following early American poets from descriptions, FTPE. A. This poet took a diplomatic commission to negotiate with Napoleon in 1811. His most ambitious work was _The Columbiad_, a twelve-volume history of America up to the Revolution. He is better-known for the mock-pastoral "The Hasty-Pudding".
Answer: Joel _Barlow
B. Friend Thomas Jefferson made him translator for the State department, and he was Jefferson's mouthpiece while running the National Gazette. Among his poems are The House of Night, "The Indian Burying Ground," and "The Wild Honey Suckle."
Answer: Philip _Freneau_
C. A lawyer born in England, he claimed to be the "Laureate of Maryland" in his elegies. His most famous poem was The Sot-Weed Factor, which inspired John Barth's novel of the same name. Answer: Ebenezer _Cook(e)_
13. What do you know about the chemistry of early photography? For ten points apiece:
A. William Talbot produced light-sensitive paper by alternately soaking it in solutions of table salt and this substance. Light exposure made a negative that could reproduce an image in another prepared sheet. Name the light-sensitive chemical.
Answer: _silver nitrate
B. Talbot's procedure for fixing the image was poor. His friend John Herschel suggested he use hypo and wax, which worked better. Hypo, with formula Na2-S2-O3, is better known today as what?
Answer: _sodium thiosulfate_
C. An alcohol-ether solution of nitrocellulose, it was applied to glass plates to create negatives that took only $5 \%$ of the exposure time needed with other methods. However, the plate had to be prepared and developed on-site before the substance dried and sealed away the silver nitrate.
Name this key to 1850's snapshots.
Answer: _collodion_ (accept: wet collodion process)
14. The 1862 battle of Shiloh is generally considered to be the second great engagement of the Civil War. For 10 points each-
A. In what state was it fought?

Answer: Tennessee
B. What Confederate general lost his life at Shiloh?

Answer: _A_(lbert) S(idney) Johnston
C. Shiloh is the name of a church near the central battlefield; give the alternate name for the battle, that of a small town on the Tennessee to which Union troops were forced to fall back. Answer: (Battle of) _Pittsburgh Landing_
15. Answer the following associated with a major advance in music theory for ten points each.
A. This work is a systematic demonstration of the power of the new style of tuning that supplanted meantone temperament in the 1700 's. For ten points, identify this series of preludes and fugues that appeared in two volumes in 1722 and 1744, by J.S. Bach.
Answer: The _Well-Tempered Clavier_( Das Wohltemperierte Klavier )
B. Bach did not originate the well-temper (also called equal temperament), and had some dispute with the mathematically exact tone spacing strategy suggested by Mersenne. This exact spacing is based on dividing each octave into 1200 equal parts and allotting them equally among the tones of the scale. For ten points, what are these tiny subdivisions called?
Answer: _cents_
C. The meantone temperament had a very prominent defect in keyboard music: black keys could only serve as a sharp or flat of only one adjacent note - if you tuned your instrument to a key with an A-sharp, and played in a key that needed a B-flat, a striking dissonance occurred. What was the slang term for this off-note?
Answer: _wolf_ note
16. Identify these African languages for ten points apiece.
A.-The national language of Tanzania, and a lingua franca throughout East Africa, it is alone among the Bantu tongues in being a non-tone language. It has incorporated many Arabic loanwords.
Answer:_Swahili_
B. This Nilo-Saharan language group is written in a version of the Coptic alphabet. It is spoken today by Muslims, primarily in western Sudan and between the first and fourth cataracts of the Nile river. Versions include Birked and Kenuzi.
Answer: _Nubian_
C. This is spoken in much of Western Africa, especially the Eastern Region of Nigeria. Natives to this Kwa language prize public speaking to such a degree that the incidence of stuttering is three times greater in their ethnic group than the world average.
Answer: _Igbo_ or Ibo
17. Identify these people and ideas as belonging to one of these Greek schools of philosophy: Academics, Stoics, Peripatetics, Epicureans, or Cynics for ten points each.
A. Antisthenes; Diogenes of Sinope; there are two classes of goods - internal and external. External goods should be disavowed (to the point of poverty) in order to focus on the development of the wealth of the soul.
Answer: _Cynics_
B. Zeno of Citium; Chryssipus of Soli; Involvement in world affairs is a central duty of every citizen, and true knowledge springs first from perception; the nature of the world implies the nature of right action.
Answer:_Stoics_
C. the Roman Lucretius; Apollodorus; Zeno of Sidon; the universe is atomistic, the core of evil is pain, pleasure is found in retiring from the world and enjoying the company of good friends.
Answer: _Epicureans_
18. Identify the foreign authors of works of science fiction for ten points each.
A. This Czech playwright coined the word "robot" in his 1921 play R.U.R.

Answer: Karel _Capek_ [chop-eck]
B. This Italian fabulist produced two collections of science fiction stories, Cosmicomics and t-zero, both narrated by the unpronounceable Qfwfq.
Answer: Italo_Calvino_
C. Among this Polish author's critical works are Summa Technologiae, a futurological treatise on the outer limits of science fiction tropes, and Fantastyka i futurologia, an investigation of the theoretical basis of the genre.
Answer: Stanislaw _Lem_
19. Answer these questions about a chunk of your brain for ten points each.
A. Part of the forebrain, it helps regulate homeostasis and contains the centers for hunger, sleep, thirst, and body temperature.
Answer: _hypothalamus
B. This "master gland" of the endocrine system is controlled by the hypothalamus by means of the so-called releasing hormones.
Answer: _pituitary
C. Two areas of the hypothalamus affect eating, one stimulating hunger, and the other suppressing it. For ten points name either of these two regions.
Answer: _lateral_ hypothalamus and _ventromedial_ hypothalamus
20. Identify the Don DeLillo novel from a description for ten points apiece.
A. Bucky Wunderlick is a rock star who wants to escape from his fame. He goes underground and takes a drug which induces child-like babbling.
Answer: _Great Jones Street
B. Fourteen year old Billy Twillig, the first recipient of the Noble Prize in Mathematics, attempts to decipher a radio message from outer space.
Answer: _Ratner's Star_
C. DeLillo's fictional exploration of Lee Harvey Oswald and the Kennedy assassination, it is named after Oswald's sign of the zodiac, since "it seemed appropriate to a man who harbored contradictions and who could tilt either way."
Answer: _Libra_

