1997 David Scott Hamilton Invitational Tournament

5 ISU 1

Tossups

1. These criteria are four in number: 1. An organism must be observed in all cases of the disease; 2. The organism must be isolated and grown in pure culture; 3. The culture must be capable of reproducing the disease when innoculated into an experimental animal; and 4. The organism must be recovered from the experimental disease. FTP, these postulates for proving pathogenic causation were laid down by what German bacteriologist?
Answer: Robert _Koch_ ("kokh")

2. On April 30, 1900, the Cannonball Express was heading southward when a freight train approached on the track ahead. The driver of the Cannonball, rather than jump, stayed in the cab and tried to brake the train, giving his coworker a chance to jump free and saving others from serious injury. He himself was killed in the crash, and his story was celebrated in a ballad by Wallace Saunders that hit it big in vaudeville. FTP, name this folk hero whose real name was John Luther.
Answer: _Casey Jones_

3. It claims that imagination is "nothing but decaying sense;" and that knowledge comes from sense experience, while wisdom comes from reason. The book then describes the state as an artificial man, with officers as joints and punishments as nerves; its final chapter, "Of the Kingdom of Darkness," alleges that the papacy is guilty of misinterpreting Scripture to justify its power. FTP, identify this treatise justifying absolute monarchy by Thomas Hobbes.
Answer: _Leviathan_ Or The Matter, Form, and Power of a Commonwealth, Ecclesiastical or Civil

4. This opera begins and ends in an attic, though other action occurs at the gates of Paris where characters rhapsodize on the flowers in the springtime, and in a caf=E9 in the Latin Quarter. The troubles begin when Marsello and Musetta quarrel over her flirtations and Rodolfo's insane jealousy drives Mimi away. FTP, name this Puccini opera which provided the story for Jonathan's Larsen's musical Rent.
Answer: _La Boh=E8me_

5. Juvenal Urbino in Love in the Time of Cholera, Thomas Stockmann in An Enemy of the People, Roger Chillingworth in The Scarlet Letter, John Watson in A Study in Scarlet, Martin Arrowsmith in Arrowsmith, and Robert Jekyll are all, for ten points, fictional practitioners of what profession?
Answer: medical _doctors_ (accept medicine) (accept Love in the Time of Cholera if some genius buzzes on Juvenal Urbino before the first title)

6. Max von Laue, working with zinc sulfide, laid the basis for the experimental technique that won Dorothy Hodgkin and Maurice Wilkins separate Nobel Prizes for their studies of penicillin, vitamin B12, and DNA. FTP, what is this technique, most associated with the father/son team of William and William Bragg which utilizes the wave properties of high energy photons to study small structures?
Answer: _X-ray diffraction_ or _X-ray crystallography_
Prompt: diffraction or crystallography

7. It is named for a explorer who served on two of James Cook's expeditions and who later became the first to sail around the Strait of Juan de Fuca and into the Strait of Georgia. It covers 12,000 square miles and is the site of Strathcona Provincial Park and Pacific Rim National Park. FTP, name this island which houses Victoria, the capital of British Columbia.
Answer: _Vancouver_ Island

8. She killed her younger brother Absyrtus and threw the fragments overboard to prevent her father from returning her and her treasure to Colchis. She also killed her husband's evil uncle Pelias, sent a poisoned robe to his new wife Creusa, slew their children, set fire to palace, and fled. FTP, who is this Greek sorceress who fell in love with Jason and allowed him to steal the Golden Fleece?
Answer: _Medea_

9. Unity, self-determination, collective work and responsibility, cooperative economics, purpose, creativity, and faith. Each of these principles has a day devoted to it during this week-long celebration, started in 1966 by Ron Karenga. FTP, identify this holiday which lasts from December 26 to January 1 and whose name comes from a Swahili word for "first fruits".
Answer: _Kwanzaa_

10. The Panic of 1873 brought together Southern and Western farmers in a loose political alliance. It had its greatest success in 1878 when 14 of its congressional candidates were elected. By 1884 it had dissolved, with many of its members becoming Populists. FTP, what was this American political party founded to promote--and named for--currency expansion?
Answer: _Greenback_ Party

11. From 1970 to 1979 an award was made in each conference; recipients included Chuck Foreman and Boobie [sic] Clark for 1972. The first was given in 1956 to Charley Taylor. No one has ever won twice--or ever will--though Marino won in 1983 and Barry Sanders won in 1989, the first year they were eligible. FTP, what is this professional football award made each year by The Sporting News to a deserving neophyte?
Answer: _Rookie of the Year_

12. The most famous are in the troposphere, where there are three main types: polar, subtropical, and equatorial. The north polar one varies its position greatly, while the equatorial one exists only in the summer over Southeast Asia and Africa. The core of strongest winds is about 60 miles wide and can move at 200 miles per hour. FTP, name these meteorological phenomena.
Answer: _jet stream_

13. It had its origins in the Democratic party's devisions over the Lecompton constitution, the Whig Party's collapse, and the problems of the Know-Nothings. Senator John Crittenden of Kentucky set up a meeting of 50 conservative, pro-compromise congressmen in 1859, which led to a convention in Baltimore in 1960. Its vice-presidential candidate that year was Edward Everett. FTP, name this party whose presidential nominee that year was John Bell.
Answer: The _Constitutional Union_ Party

14. [Host: Pre-read to get the poetic meter right.]
His eyes had all the seeming of a demon that was dreaming
On the pallid bust of Pallas just above the chamber door.
He came in bleak December to one who did remember
All too well the radiant maiden whom the angels name Lenore.
And, stately in his bidding, poses for his ridding
Merely such a query: to name this ebon fury
=46or ten points now and ceasing phasmagore,
Speak aloud this piece of quaint and curious lore.

Answer: the _raven_

15. His late novels, like _Many Marriages_ and _Kit Brandon_, were failures. He had grown up in th small town of Clyde that was the basis for the setting of his mature work. Among his short story collections are _Horses and Men_ and _Death in the woods_, while his first novel was _Windy McPherson's Son_. FTP, name this author of _The Triumph of the Egg_ and _Winesburg, Ohio_.
Answer: Sherwood _Anderson_

16. In a 1977 plebiscite, this nation voted for independence from France and made Hassan Gouled Aptidon its first president. Since then its National Assembly has been dominated by its largest ethnic group, the Issas, with the Afar minority calling for greater political power. FTP, name this desert republic located on the east coast of Africa separated from Yemen by the Bab al Mandab.
Answer: _Djibouti_

17. He holds the first industrial patent ever recorded, for hoisting gear used on a special marble-moving barge. Alberti dedicated OnPainting to this infrequent painter, who rediscovered the laws of perspective. For ten points, identify this ex-sculptor who lost the Baptistery doors commission to Ghiberti but went on to architectural greatness with the dome of the cathedral of Florence.
Answer: Filippo _Brunelleschi_

18. Persian legend states that she was the daughter of a Chinese king. Ethiopians hold that she was the mother of their royal house. An Arab tale claims she had very hairy legs and King Solomon ordered his demons to create a depilatory for her. FTP, name this woman who ruled southwestern Arabia in the 10th century BCE and tested Solomon's wisdom with a series of riddles, rewarding him with gold when he was
successful.
Answer: _Queen of Sheba_ (Bilgis, Makeda)

19. Palomino horses, when bred, produce Cremello, light chestnut, and Palomino offspring in F2 generation. The populations are in the 1:2:1 phenotypic ratio characteristic of this phenomenon. It was first observed by Hugo de Vries when pink snapdragons resulted from crosses of red and white. FTP, name this phenomenon when genes are not paired as dominant/recessive but produce a phenotypically
different heterozygote.
Answer: _incomplete dominance_

20. Ben intended to go to Alaska and ended up in Africa. Biff is a kleptomaniac. Happy is a womanizer. And the title character is losing himself more and more in past memories as his job disintegrates. FTP, identify this Arthur Miller play about Willy Loman.
Answer: _Death of a Salesman_

21. He made contributions to thermodynamics, biology, medicine, and industrial chemistry, including his phase rule explained the relationship among the different phases of the different substances in a mixture. He is most famous for work with Duhem and Helmholtz dealing with difference of enthalpy and the product of temperature and entropy which characterized the direction of a chemical reaction. FTP, name this American scientist or his signature free energy.
Answer: Josiah Willard _Gibbs_

22. It was intended to divide the Roman Catholics and Eastern Orthodox people into their appropriate countries. Pilsudski rejected it, however, and conquered an area well to the east of it. It reappeared in 1945 as the border between newly reconstituted Poland and the Soviet Union. FTP, name this political line drawn by the British Foreign Secretary for whom it is named.
Answer: _Curzon_ Line

23. He built his reputation pacifying French Sudan and Madagascar and serving ably as governor general of Madagascar from 1901-1905. He declined the post of supreme commander of the French Army in 1911 due to age and health. He gained his greatest fame when, as military commander of Paris at the start of WWI, he saved France through his heroic defense at the =46irst Battle of the Marne. FTP, name this French officer.
Answer: Joseph-Simon _Gallieni_

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Boni

1. Answer the following questions on the presidency of James Madison for
ten points apiece.
a. What name was given to Henry Clay, Felix Grundy, John Calhoun, and
others in their role of promoting war to gain Canada and Florida?
Answer: _War Hawks_
b. What secret 1814 meeting led to the collapse of the Federalist Party
after it was rumored to have discussed the secession of New England?
Answer: the _Hartford Convention_
c. What four-word phrase is usually used to describe the period beginning
in the two years following the War of 1812 during which prosperity ran
rampant?
Answer: _Era of Good Feeling_(s)

2. Given the surface feature, identify the planet on which it can be found
for ten points apiece.
1. the Golubkina and Lise Meitner craters
Answer: _Venus_
2. Olympus Mons
Answer: _Mars_
3. Great Dark Spot
Answer: _Neptune_

3. It's time for an insipid Colvin-science bonus about the Moh's scale of
mineral hardness. Identify the following index rocks from the scale, on a
10-5 basis:
1. For 10 points: This phosphate of calcium is a major constituent of the
bones and teeth of vertebrates.
=46or 5 points: Still hungry for points? It's number 5 on the scale, and
comes after Fluorite.
Answer: _Apatite_
2. For 10 points: Rubies and Sapphires are forms of this hard mineral, an
oxide of aluminum.
=46or 5 points: In is number 9 on the scale, second only to diamond.
Answer: _Corundum_
3. For 10 points: With forumla SiO2, this mineral is clear unless colored
by impurities, as is the case in chalcedony and jasper.
=46or 5 points: Used as a crystal in electric clocks, it is number 7 on the
scale.
Answer: _Quartz_

4. Given each character, identify the work he narrates for ten points apiece=
=2E
a. Nick Carraway
Answer: _The Great Gatsby_
b. Tom Joad
Answer: _The Grapes of Wrath_
c. Humbert Humbert
Answer: _Lolita_

5. Given each of the following Shakespearean characters, identify his or
her killer for ten points apiece. "None" is an answer if the character is
alive at the end of the play.
a. Hotspur
Answer: _Prince Hal_ (King _Henry V_ Lancaster of England)
b. Mercutio
Answer: _Tybalt_
c. Portia, wife to Brutus
Answer: _Portia_, wife to Brutus

6. Identify the following Shel Silverstein characters for ten points apiece.

a. Despite God's stern warning to Noah, he was unable to get these stupid
frolicking creatures onto the Ark and thus they perished.
Answer: _unicorns_
b. This lazy lout simply would not take the garbage out.
Answer: Sarah Cynthia Sylvia _Stout_
c. She gave everything she had to the boy he loved: her attention, her
apples, her wood, and finally her stump to rest on.
Answer: the _giving tree_

7. If quiz bowl were art, who would be in it? Identify the artists of
whose works the following are parodies, 10 points each:
1. Andrew Yaphe stretches his hand out of the water, as Brian Rostron
tries desperately to save him from the teeth -- and oddly, lips -- of a
huge shark.
Answer: John Singleton _Copley_ (parody of Watson and the Shark)
2. A huge archway frames the scene. In the center, Jeff Johnson points at
the sky, while Tom Waters holds his hand out flat. On the steps in front
of them, Phil O'Donaghue reclines shamelessly with the Ad Hoc Bowl sitting
next to him. Various other characters are engaged in lively discussion.
Answer: _Raphael_ (parody of the School of Athens)
3. Arthur Fleming holds out three swords grasped in one hand, while
triplets Matt Colvin, Dave Hamilton, and Dave Goodman give a Nazi-esque
salute, pledging to fight against the Curatii triplets.
Answer: Jacques-Louis _David_ (parody of the Oath of the Horatii)

8. Answer the following questions about white blood cells for ten points
apiece.
1. Name either of the two types of phagocytic white blood cells which
engulf bacteria directly.
Answer: _neutrophils_ or _monocytes_
2. What is the general name given to the non-phagocytic white blood cells,
from the Greek for "white cells"?
Answer: _lymphocytes_
3. Which type of lymphocyte produces antibodies?
Answer: _B cells_

9. It's time for a redux of that hit bonus of yesteryear: "Where in Hell
is Carmen Sandiego?". Yes, Interpol has finally given up on normal jails
and has condemned her to Dante's Inferno. Answer the following for the
stated number of points:
1. For 5 points: Before entering Hell, Carmen bends over backward to pass
through what abode of unbaptised spirits, the final resting place of Vergil?
Answer: _Limbo_
2. For 10 points: Carmen passes down through the circles of the sins of
incontinence, where she sees carnal sinners, including these two Italians,
sister-and-brother-in-law, surnamed Malatesta and da Rimini. Carmen
remembers that she once stole Rodin's "The Kiss," which depicts these two
locked in adulterous embrace.
Answer: _Paolo_ and _Francesca_
3. For 5 points each: Carmen, of course, is consigned to the lowest
circle of Hell, where she has an excellent view of the three heads of
Satan, which are masticating the bodies of what three sinners?
Answer: _Brutus_, _Cassius_, and _Judas_ Iscariot

10. Identify each of the following two thermodynamic state functions for
ten points apiece from a description, or for 5 if you need the letter that
represents it.
1. For 15 points: This state function represents the amount of usable work
extractable from a system. It is zero at chemical equilibrium.
=46or 5 points: The symbol is G.
Answer: _Gibbs free energy_
2. For 15 points: This state function is given by the internal energy plus
the product of the pressure and volume.
=46or 5 points: The symbol is H.
Answer: _enthalpy_

11. Identify the following philosophers from their strange view of reality

for 10 points apiece.
1. This pre-Socratic thinker believed that water was the fundamental
substance and that all matter was made from it.
Answer: _Thales_ of Miletus
2. This Eleatic philosopher defended the doctrines of his teacher
Parmenides with a series of logical paradoxes, including an arrow that
cannot move, and the fact that Achilles can never catch up to a tortoise in
a race if the tortoise has a head start.
Answer: _Zeno_ of Elea
3. This 18th century British scholar believed that "to be was to be
perceived" and that unseen things retained reality only because God was
always looking at them.
Answer: Bishop George _Berkeley_ [BARK-lee]

12. Identify the following Jane Austen novels from brief plot descriptions
for ten points apiece.
1. It is a response to the popular "Gothic horror" novels and depicts
impressionable Catherine drawing false conclusions about a mysterious
building.
Answer: _Northanger Abbey_
2. This novel focuses on the efforts of Mrs. Bennet to get her five
daughters married.
Answer: _Pride and Prejudice_
3. The novel focuses on Miss Woodhouse's attempt to make a suitable match
for her friend who is the illegitimate daughter of a tradesman.
Answer: _Emma_

13. Identify the following men active in the 20th century Pan-African
movement for ten points apiece.
1. He helped found both the Niagara Movement and the NAACP and organized
the first Pan-African Congress in London in 1900.
Answer: William Edward Burghardt _DuBois_ [doo-BOYS] (1868-1963)
2. This Gikuyu chieftain and anthropologist founded the African National
Union. He was active in the Kenyan independence movement and became that
country's first Prime Minister.
Answer: Jomo _Kenyatta_ (1893-1978)
3. He was largely responsible for the 1945 Manchester Pan-African Congress
and afterwards organized the United Gold Coast Convention. He became the
first Prime Minister of Ghana upon independence.
Answer: Kwame Francis Nwia Kofi _Nkrumah_ (1909-1972)

14. Answer the following questions about the geography of Malaysia for the
stated number of points.
1. Malaysia was originally formed when one nation and three British
colonies merged in 1963. Name any two of these four for 5 each.
Answer: _Singapore, Malaya, Sarawark, Sabah_
2. For 10 points: The provinces of Sarawak and Sabah are not on the
mainland of Asia; on what large island to the south can they be found?
Answer: _Borneo_
3. For 10 points: Borneo is home to what large ape that is the villain in
Poe's _Murders in the Rue Morgue_?
Answer: The _Orang-Utan_

15. Identify the following related to the French Revolution for ten points
apiece.
1. This 1791 act which severed the French church from Rome was the first
act which aroused serious opposition to the revolution.
Answer: _Civil Constitution of the Clergy_
2. This committee, under Robespierre, directed the revolution during its
most terrible period.
Answer: _Committee on/of Public Safety_
3. This reaction, named for the month of the French calendar in which it
occurred, toppled Robespierre. It was launched by members of the Committee
he had accused of treason.
Answer: _Thermidorean_ Reaction

16. Given each of the following works of world literature, identify the

country or nation of which it is an epic for ten points apiece.
1. Kalevala
Answer: _Finland_
2. Os Luciad [osh LOO-she-ad]
Answer: _Portugal_
3. Mabinogion
Answer: _Wales_

17. Identify the following languages of Spain for ten points apiece.
1. This form of Spanish, named after the kingdom of Queen Isabella, is the
official language of the country.
Answer: _Castilian_ Spanish
2. Similar to the Proven=E7al tongue of southern France, it is spoken in the
area in and around Barcelona.
Answer: _Catalan_
3. Also called Euskara, it is spoken in northern Spain, in and around the
city of Bilbao.
Answer: _Basque_

18. Identify the following secretaries of state for ten points apiece.
1. Secretary of State for Wilson, he lost 3 Presidential elections as the
Democratic nominee.
Answer: William Jennings _Bryan_
2. The longest-serving Sec. of State, he advocated the "Good Neighbor"
policy under Franklin Roosevelt. He won the 1944 Nobe Peace Prize.
Answer: Cordell _Hull_
3. He negotiated the "Gentlemen's Agreement" with Japan during his service
from 1904-1909.
Answer: Elihu _Root_

19. Identify the following mathematical structures for 15 points apiece.
1. This is any set of objects with a closed binary operation that is
associative.
Answer: _semigroup_
2. This is any set of objects which is a group under addition and with a
distributive multiplication.
Answer: _ring_

20. Identify the following people, all of whom were recently named to Time
Magazine's 1997 list of "The Most Influential People in America" for ten
points apiece each.
1. The only elected official on the list, this Republican Senator from
Arizona and former Vietnam POW was cited for killing off peers' pork-barrel
projects.
Answer: John _McCain_
2. Although his audience is barely half that of Howard Stern's, this
shock-jock was cited for translating "stodgy politics into vital popular
culture."
Answer: Don _Imus_
3. Chair of Harvard's Afro-American-studies department, he co-edited the
Norton Anthology of African-American Literature.
Answer: Henry Louis "Skip" _Gates_, Jr.