

5/2/02

DSHIT 2002 Round 7 – Questions by (mostly) by Rutgers-Newark, with help from UMD

Tossups

1. Discovered in 1878 by Swiss chemist Jean Charles de Marignac, it is commonly used in alloys, electronics, and magnetic materials. It melts at 819°C, boils at 1196°C, and has a specific gravity of about 7. The 44th most naturally abundant element in the earth's crust, it is soft, malleable, and has a bright luster. FTP, give the name of this lanthanide – one of only two elements that begins with the letter "Y".

ANSWER: Ytterbium

2. Drafted out of high school in the 27th round in 1983 by the New York Mets, he elected to attend UNLV instead of signing. He was on the 1985 USA Olympic team, and eventually started his pro career with the San Francisco Giants in 1987. FTP, name this current Arizona Diamondback who has hit 362 home runs in his career and recently broke his leg in spring training.

ANSWER: Matt Williams

3. It was founded in 1533 by the Spanish, and later became a thriving commercial port that served a key stop-off before Panama and Peru. Sir Francis Drake inflicted heavy damage on the city in 1586, and Simon Bolivar captured it from the Spanish in 1821. FTP, give the name of this 5th largest Colombian city, an island city once called the Queen of the Indies, and known for its oil exports and tourism.

ANSWER: Cartagena

4. Born in 1892 in Rockland, Maine, she was a noted bisexual whose sexual preference was echoed in many of her literary works. She was known for using traditional verse forms in the form of strong simple expression, though her poetic subjects were not groundbreaking. Steepletop, her Austerlitz, NY, home, is now a National Historic Landmark. FTP, name this twentieth century lyric poet, who often used the pseudonym "Nancy Boyd," known for such works as *A Few Figs from Thistles* and *The Ballad of the Harp Weaver*.

ANSWER: Edna St. Vincent Millay

5. While in office, he changed his first name from Albert to the Islamic name of Omar. In the 1970s, he helped Gabon loosen its ties with France and direct that country in enjoying a period of great economic growth. He was reelected to two seven-year terms in 1979 and 1986, until M'Ba Abessole finally succeeded him in 1996 amid reports of election fraud. FTP, identify this Gabonese leader who took power in 1967 after M'Ba's death, and whose last name sounds like a type of drum.

ANSWER: Albert Bernard Bongo

6. Measuring approximately 16' x 23' and painted between 1818 and 1819, it currently hangs in the Louvre. The real-life story behind the work revolves around a French vessel that foundered off the coast of west Africa in 1816, laden with Algerian immigrants. FTP, give the name of this anguished, depression-filled Theodore Gericault masterpiece, considered a direct attack against the French government.

ANSWER: the Raft of the Medusa

7. From his name, we get the English term to 'bitterly lament'. This is not surprising because this prophet of priestly descent foretold the destruction of the First Temple in Jerusalem by the Babylonians, and told the people of Judah to surrender to them in order to preserve it. FTP, name this Old Testament prophet, who has a book to his name between Isaiah and Ezekiel.

ANSWER: Jeremiah

8. In the upper right half of this chart one can find irregular variables and Cepheid variables, above the designation for subgiants. Below the main sequence line one may find red dwarfs, subdwarfs and white dwarfs. Stars spend most of their lives on the main sequence line, and as it burns helium moves to the giant region, causing a gap named for one of the namesakes of this chart. FTP, identify this diagram that plots absolute magnitude of stars against their spectral type, named for two scientists.

ANSWER: Hertzsprung-Russell Diagram

9. This author's posthumously published works include *American Hunger*, a sequel to a 1945 novel, and *Lawd Today* an account of one unhappy day, February 12, 1936. The novel *Black Power* deals with Africa's Gold Coast, and the novel *The Color Curtain* is an account of the Bandung Conferences, and *Uncle Tom's Children* won the Story prize for being the best book submitted by any one associated with the Federal Writers' Project. FTP, identify this author of *The God that Failed*, *Black Boy*, and *Native Son*.

ANSWER: Richard Wright

10. As a young man he fought against U.S. troops in Wyoming under the chief Red Cloud. When gold was discovered in the Black Hills region in 1874 and prospectors swarmed the area, he joined forces with Sitting Bull, to keep their land free of occupation by white settlers. FTP, name this chief of the Oglala Sioux who, along with his warriors, killed Custer in the Battle at Little Bighorn and was killed by a U.S. soldier in 1877.

ANSWER: Crazy Horse (or Ta-sunko-witko)

11. He compiled and supplemented the mathematical knowledge of classical, Arabic, and Indian cultures, and made contributions to the mathematical fields of algebra and number theory. His renowned number series, in which each member is the sum of the two preceding numbers, is widely used in mathematics and can be found in patterns in nature. FTP, identify this Italian mathematician who was born in 1170 in Pisa.

ANSWER: Leonardo Fibonacci

12. During the making of this film, Tom Berenger said, "We didn't have to act. We were there." Indeed, as part of the Bravo Company, Sergeant Elias, new enlistee Chris Taylor, and Sergeant Barnes come to terms with man's greatest enemy: himself. FTP, name this 1986 movie produced by Arnold Kopelson that starred Johnny Depp, Charlie Sheen, and Wilhem Dafoe.

ANSWER: Platoon

13. A stretch of wilderness thought to have oil reserves, it was also a hot commodity because of its proximity to the Atlantic coast via the Rio de Plata system. The war over this piece of land cost over 100,000 lives, and so altered Bolivia's economy that its disrupted peoples demanded mass reform. FTP, name this war between Paraguay and Bolivia, that ended with a treaty awarding Paraguay control of most of the disputed region.

ANSWER: Chaco War

14. The daughter of the author the two volume *Conversations with Children on the Gospels*, her first published work was *Flower Fables*. Her time spent as a nurse during the American Civil war inspired *Hospital Sketches* published in 1865, followed later that same year with the novel *Moods*. Her more sensational tales like "Pauline's Passion and Punishment" were published under various pseudonyms, but she is better known for her wholesome works reflecting her girlhood in New England. FTP, identify this author of *Eight Cousins* and *Little Women*.

ANSWER: Louisa May Alcott

15. He served in World War II under General Stilwell's staff, and later held positions in the state and war departments, helping prosecute the Korean War as an assistant secretary of state. He also served as president of the Rockefeller Foundation from 1952-1960, and was secretary of state under Kennedy and Lyndon Johnson. FTP, name this educator and public official best known for his defense of the Vietnam war and the opposition of recognizing Communist China.

ANSWER: Dean Rusk

16. This organ has a glucose buffer function, in which it maintains the proper level of glucose in the blood, and it also has specific cells that convert glucose to glycogen and vice versa. Deamination takes place here, as well as the conversion of fatty acids into cholesterol. Ninety Five percent of the fibrinogen, prothrombin, and other coagulation factors is produced here, and Kupffer cells, which are phagocytic, remove debris from the blood. FTP, identify this organ, which may be damaged by such diseases as hepatitis and cirrhosis.

ANSWER: Liver

17. The alternate title to this play provided T.S. Eliot with the penultimate line of *The Wasteland*. The son of Don Cyprian, Lorenzo, would like to see his sister marry the captured Portuguese Balthazar, but she is in love with the protagonist's son Horatio, who is later hung. The protagonist carries out his revenge by means of the play *Solymon and Perseda*, in which Lorenzo and Balthazar are killed, Bel-Imperia stabs herself, and the protagonist bites out his tongue. FTP, identify this play whose alternate title is *Hieronimo is mad againe*, written by Thomas Kyd.

ANSWER: The Spanish Tragedy

18. In 1899, he became the first professor of anthropology at Columbia University, where he taught until 1937. He is known for such works as The Growth of Children, The Mind of Primitive Man, and Race, Language, and Culture. He also served as curator of ethnology at the American Museum of Natural History from 1901 to 1905. FTP, give the name of this anthropologist and ethnologist best known for his work with the Kwakiutl Indians of British Columbia that established a new concept of culture and race.

ANSWER: Franz Boas

19. The Lorentz-Fitzgerald attempted to reconcile the results of this experiment with current theory. This experiment predicted a change of optical path length of approximately $2d\sqrt{v^2/c^2}$, where v is the velocity of the earth with respect to the ether. Performed in 1887, this experiment used an interferometer developed by the namesake of one of the scientists involved. FTP, identify this experiment that rejects the concept of ether.

ANSWER: Michaelson-Morley Experiment

20. Gandhi, Sir Arthur Conan Doyle, and Sir Robert Baden Powell served in these engagements, which killed over 25,000 native civilians in inefficient British concentrations camps alone. After Britain captured the two capitals, rebel fighters waged a guerrilla war deep in the bush, continuing to inflict damage on British troops for over 2 years. FTP, name these series of wars between Dutch settlers and British troops that finally concluded with the Treaty of Vereeniging.

ANSWER: Boer Wars

21. Compounds of this element were mined by the early Chinese, Greek, and Egyptian civilizations. One of the elements with an alchemy symbol, it is believed that Albertus Magnus first isolated the element in 1250 by heating soap with orpiment. The element is a steel gray, brittle, semi-metallic solid that tarnishes in air. FTP, name this element that is used in bronzing, pyrotechny, and agricultural insecticides, symbolized As.

ANSWER: Arsenic

Bonuses:

1. 30-20-10 Identify the Nobel Prize Winner in Physics.

30. His son Erwin was executed in 1944 for plotting against Hitler, and among his major works is the *Annalen der Physik*.

20. He studied under Kirchhoff and Helmholtz, whose influence can be seen in his early papers on entropy, on thermoelectricity and on the theory of dilute solutions.

10. He won the Nobel Prize in 1918 for his work on the wavelength variation of a black body with respect to temperature, which led to the development of his constant, h .

ANSWER: Max Planck

2. Identify the authors of these works 5 for one, 10 for two, 20 for three, and 30 for all four.

1. *The Sorrows of Young Werther*

ANSWER: Johann Wolfgang von Goethe

2. *The Glass Bead Game*

ANSWER: Hermann Hesse

3. *The Flounder*

ANSWER: Gunter Grass

4. *Tonio Kroger*

ANSWER: Thomas Mann

3. Given the American Revolutionary War battle, identify the British commander, TPE.

1. Battle of Long Island

ANSWER: William Howe

2. Battle of Camden

ANSWER: Charles Cornwallis

3. King's Mountain

ANSWER: Patrick Ferguson

4. Identify these early biologists, TPE.

1. Court physician to both James I and Charles I, in 1628 he published his most famous work *De Motu Cordis* where he expounded his views on the circulation of blood.

ANSWER: William Harvey

2. A surgeon, an embryologist, and an anatomist, this man was the teacher of William Harvey.

ANSWER: Hieronymus Fabricius

3. The teacher of Fabricius, he lends his name to a tube connecting the ovaries with the uterus.

ANSWER: Gabriele Fallopio

5. FTP each, given the country, name the capital.

[10] Guam

ANSWER: Agana

[10] Cambodia

ANSWER: Phnom Penh

[10] Burkina Faso

ANSWER: Ouagadougou

6. FTP each, identify these NFL Hall of Famers.

[10] The first man originally from Canton to be elected to the Hall of Fame, he was a mainstay of the Vikings' Purple People Eaters defense. Name him, the first defensive player ever to be named league MVP.

ANSWER: Alan Page

[10] He rushed for an NFL leading 1,450 yards in his rookie season, and was the centerpiece of Saints' and Oilers' offense for the eight seasons he played. Name this Heisman-trophy winning running back who starred at the University of Texas.

ANSWER: Earl Campbell

[10] Jack Ham called this man "the most incredible athlete I've ever seen." As a member of Pittsburgh's Steel Curtain defense, he was a five-time Pro Bowler. Give the name of this hard-hitting cornerback who finished his career with 57 interceptions.

ANSWER: Mel Blount

7. Identify these Aristophanes plays from descriptions, TPE.

[10] Philocleon loves jury duty, but his son Bdellocleon (buh-DEL-oh-clee-on) attempts to confine him to his house for his own good. Philocleon holds trials at home, indicting a dog for stealing cheese.

ANSWER: The Wasps

[10] Strepsiades encourages his son Phidippides to enroll in the Thinkery so as to teach his son rhetoric in order to evade creditors. When Phidippides turns his talent against his father, he sets fire to the school.

ANSWER: The Clouds

[10] One word: Cloud-cuckooland. Euelpides and Pithetarerus help to found that city where they block the smoke from mortals' sacrifices to the gods unless the gods comply with their demands. Everyone lives happily ever after.

ANSWER: The Birds

8. Identify these organic chemistry functional groups from descriptions, 5 for one, 10 for two, 20 for three, and 30 for all four.

a. The presence of an OH group on a hydrocarbon chain, R-OH.

ANSWER: alcohol

b. Two hydrocarbon chains connect by an oxygen atom, R-O-R' (R-prime)

ANSWER: Ether

c. A non-terminal carbon contains a double bonded oxygen

ANSWER: Keytone

d. Similar to carboxylic acid but the OH group is replaced by an amine group.

ANSWER: Amide

9. FFPE, given a year, name the king or queen in power at the time in each of England, France, and Spain.

[5,5,5] 1776

ANSWER: George III, Louis XVI, Charles III

[5,5,5] 1590

ANSWER: Elizabeth I, Henry IV, Phillip II

10. Identify these characters from James Fenimore Cooper's *The Leatherstocking Tales* 5-10-15.

[5] This is the name of the protagonist of the series, known alternately as Deerslayer, Hawkeye, or Pathfinder, among other names.

ANSWER: Natty Bumppo or Nathanael Bumppo

[10] This is the name of Natty Bumppo's close friend, a member of the Delaware tribe, who is also known as "Serpent" or "Sarpent".

ANSWER: Chingachgook

[15] This is the name of Chingachgook's son, the Last of the Mohicans in the book of that name.

ANSWER: Uncas

11. Identify these plant hormones, TPE.

[10] The first identified plant hormone, these stimulate stem elongation, and stimulate bolting/flowering in response to long days.

ANSWER: Gibberellins

Answer: Battle of **Chickamauga**

[10] Fought at an inn between Orange and Fredericksburg, VA, general Joseph Hooker was defeated by Lee and J.E.B. Stuart, but the Confederates suffered the loss of General Stonewall Jackson.

Answer: Battle of **Chancellorsville**

[10] The Union strategy to unite George McClellan and John Pope for an assault on Richmond failed and Stonewall Jackson, reinforced by Lee and Longstreet was able to inflict heavy casualty on the Union forces.

Answer: Battle of **Second Bull Run** (2nd Manassas Junction)

18. Identify these phobias on a 5,10,15 point basis.

[5] Fear of foreigners or strangers.

ANS: **xenophobia**

[10] Fear of dirt or germs.

ANS: **mysophobia**

[15] Fear of cats.

ANS: **ailurophobia**

19. American International Pictures produced some of the greatest B movies of all time. Identify the following TPE.

[10] Michael Landon stars in this lurid tale of an adolescent and his problem with lycanthropy.

ANSWER: **I Was a Teenage Werewolf**

[10] American International produced this series of films starring Annette Funicello and Frankie Avalon. It takes its name from the title of the first film of the genre.

ANSWER: **Beach Party** (do not except "Beach Blanket Bingo")

[10] David Lindsay is involved in a hit and run and frames Donna Price, his ex-girlfriend and the only witness, for the crime, and she is sent away. The tagline for this movie was: "Caged boy-hungry wildcats gone mad!"

ANSWER: **Reform School Girl**

20. Give the elementary particles from a brief description FTPE.

[10] 207 times heavy than the electron, it was discovered by Carl D. Anderson and decays by weak interaction in an electron and kinds of neutrinos.

ANSWER: **Muon**

[10] This particle binds quarks within the protons and neutrons of stable matter as well within heavier, short-lived particles created at high energies.

ANSWER: **Gluon**

[10] This the type of meson that contains one up or down type quark or antiquark and one strange type.

ANSWER: **K mesons**

21. After losing a struggle for power to a coalition led by Georgy Malenkov, Vyacheslav Molotov, and Nikita Khrushchev, this chief of the secret police under Stalin was executed after a trial in December of 1953.

[10] Name him FTP.

ANSWER: Lavrenty Pavlovich **Beria**

[10] Beria became deputy to this Soviet secret police chief in 1938. He was apparently arrested and shot on Stalin's orders and Beria became the chief in 1938.

ANSWER: Nikolay **Yezhov**

[10] Give the official name of the Soviet secret police, abbreviated in Russian as NKVD.

ANSWER: **People's Commissariat for Internal Affairs**

22. Name these philosophers from works and clues 5-10-15.

[5] He wrote *Summa Totius Logicae*, *Dialogus*, and *Opera Emnia Philosophica et Theologica*, but is probably most famous for his razor.

Answer: William of **Ockham**

[10] Known as Doctor Universalis, he wrote *Summa de Creaturis* and *Summa Theologiae*, he was the teacher of Thomas Aquinas.

Answer: St. **Albertus Magnus**

[15] Called Doctor Subtilis for his skillful defense of the Immaculate Conception, he wrote *Commentaries on the Sentences*, *Questions on Metaphysics* and *On the First Principle*.

Answer: John Duns **Scotus**

[10] These stimulate cell division and stimulate morphogenesis in tissue culture.

ANSWER: Cytokinins

[10] This stimulates the release of dormancy and stimulates fruit ripening,

ANSWER: Ethylene

12. There are 7 NBA teams that currently play in arenas named for airlines. For 5 points each after the first, name those 7 NBA teams: (5 for 2, 10 for 3, 15 for 4, ...)

ANSWERS: (accept either team name or city)

<u>Chicago Bulls</u>	(United Center)
<u>Dallas Mavericks</u>	(American Airlines Center)
<u>Miami Heat</u>	(American Airlines Arena)
<u>New Jersey Nets</u>	(Continental Airlines Arena)
<u>Phoenix Suns</u>	(America West Arena)
<u>Toronto Raptors</u>	(Air Canada Centre)
<u>Utah Jazz</u>	(Delta Center)

13. Answer the following questions about the Veracruz incident: 5, 15, 10:

[5] The American occupation of the Mexican port city of Veracruz occurred during the civil wars of the Mexican Revolution, from April to November of what year?

ANSWER: 1914

[15] On April 9, 1914, anchored in a forbidden area in the port of Tampico, the crew of what U.S. ship was arrested and detained for 90 minutes?

ANSWER: USS Dolphin

[10] Woodrow Wilson demanded a 21-gun salute to the American flag. Not receiving an apology, Wilson sent a fleet into the Gulf of Mexico, and Marines invaded after reports that a German ship would provide munitions to what Mexican President?

ANSWER: Victoriano Huerta

14. Identify the Canterbury Tale FTPE.

[10] In this tale, the monk John borrows money from a merchant and gives it to the merchant's wife.

ANSWER: Shipman's Tale

[10] In this tale three youths want to slay death, they are directed to a pile of gold. Because of their greed, all three end up dead.

ANSWER: Pardoner's Tale

[10] In this tale, the rooster, Chanticleer, is caught by the fox, Don Russell. Chanticleer eventually tricks the fox into letting him go.

ANSWER: Nuns Priest's Tale

15. Identify the dog breed FTPE.

[10] It is related to the Alaskan malamute and the Samoyed. It originated in Siberia and has a thick, soft, double coat, with a smooth outer coat and a downy undercoat.

ANSWER: Husky

[10] They were developed in southern Germany and were used by Romans to herd cattle and sheep. They have tan markings on the head, chest, and legs.

ANSWER: Rottweiler

[10] This breed originated in northern Japan and was used to hunt bears and other large animals.

ANSWER: Akita

16. Name these Italian seas, 5, 10, 15:

[5] 500 miles long and 100 miles wide, this sea lies between the Italian and Baltic Peninsulas.

ANSWER: Adriatic Sea

[10] Located between the Italian mainland, Sardinia, and Sicily; inlets include the Gulf of Salerno and Bay of Naples.

ANSWER: Tyrrhenian Sea

[15] North of the Tyrrhenian, this sea is located between Corsica and the city of Genoa.

ANSWER: Ligurian Sea

17. Name the Civil War battle from clues FTPE.

[10] This battle is where George Thomas held his ground against Bragg's forces earned his famous nickname while Rosecrans retreated to Chattanooga.