

Valencia Fall Invitational 2002
Round 10—Questions by Dr. Dan Finley of Gulf Coast Community College

TOSS-UP QUESTIONS:

1. After taking the oath of office, he said, "I feel as though the moon and all the stars and all the planets have fallen upon me. Please, boys, give me your prayers. I need them very much." Like his distant relative, John Tyler who was the first, he became the seventh vice-president to become president by succession. He fought in World War-1 in France and married his childhood sweetheart, Bess Wallace. FTP, name this president who introduced the Marshall plan and made the decision to drop the atomic bomb on Japan to end World War-2.

A: Harry S Truman

2. He was the second to be called, a fisherman from Capernaum and brother of Peter. He was crucified at Patras, Greece, on an X-shaped cross that has ever since been named for him. FTP, name this disciple of Jesus and patron saint of Scotland.

A: Saint Andrew

3. In 1897, while studying to be a physician, he wrote his first novel, *Liza of Lambeth*, a story of London's slums. Because of the book's success, he never practiced medicine. One of his best known novels, *The Moon and Sixpence*, was based on the life of French painter Paul Gauguin. FTP, name this writer famous for the novels *Of Human Bondage* and *The Razor's Edge*.

A: W. Somerset Maugham

4. On a cold winter morning in 1905 in San Francisco, 11-year-old Frank Epperson stepped out onto his porch and discovered that the cup of powdered soda and water that he had left outside the night before had frozen. When he reached for the stir stick he had left in the cup, he discovered that the sweet concoction was solid ice. Tasting it, Epperson decided that his accident had commercial possibilities. In 1924, he received a patent for this product. FTP, name this popular brand-name treat now sold by the Gold Bond-Good Humor Company.

A: Popsicle

5. The first Mardi Gras celebration in the new world was celebrated in this city. It is the home of Oakleigh, a beautiful antebellum mansion, and Bellingrath Gardens is located just 20 miles away. One of the most famous civil war naval battles happened offshore with Admiral David Farragut damning the confederate torpedoes. FTP, name this oldest continuously inhabited European settlement on the Gulf of Mexico.

A: Mobile, Alabama

6. His memoir about his life experiences and business strategies was entitled *Straight From the Gut*. A native of Massachusetts, he holds three degrees, including a Ph.D. in chemical engineering. He spent 40-years, his entire working career, in the service of the company that he would direct as CEO for 20 years. Known as "Neutron Jack," FTP, name this highly successful business leader who retired from General Electric in 2001.

A: John Frances (Jack) Welch Jr.

7. It took this French engineer 10-years to build the canal that connected the Mediterranean Sea with the Red Sea. While successful in completing the 101-mile Suez Canal, he was a horrible failure in his attempt to build the 51-mile "Big Ditch" across the Isthmus of Panama. FTP, name this hero-turned goat who was convicted and sentenced to prison for his role in the French attempt to build the Panama Canal.

A: Ferdinand de Lesseps

8. This musical group was inducted in the Rock and Roll Hall of Fame in 1997, 33 years after forming in New York. The four members included Ellen Naomi Cohen, who used a stage name, and her friend Denny Doherty from Nova Scotia. Only the bandleader's wife, Michelle, was from California, despite their most famous hit. FTP, name this 1960s group who wrote *California Dreamin* while living in New York.

A: The Mamas and the Papas

9. His stories and sketches were collected in the books *Black Spring* and *Max and the White Phagocytes*. He is also famous for his correspondence with his French lover Anais [Ah-nah-EES] Nin. FTP, name this author whose major works were banned in the US until the Supreme Court in 1964 ruled that his *Tropic of Cancer* was not obscene.

A: Henry Valentine Miller

10. It is the real analog of reactance, and is measured in the same units. It adds algebraically in a series, and harmonically in parallel. For a section of a conductor, its value is given by the length divided by the conductivity times the cross-sectional area. Rheostats, also known as potentiometers, have an adjustable value of this quantity. Circuits where its value is zero are short circuits. FTP name this quantity measured in ohms.

A. resistance

11. In 1860, he was born a slave on a farm near Diamond, Missouri. After his release from slavery, he worked his way through high school in Kansas, and in 1896, he earned a Master's degree in agriculture from what is now Iowa State University. FTP, name this African-American scientist who made hundreds of useful products from peanuts although peanut butter is not one of them.

A: George Washington Carver

12. It is the only major European river that travels from west-to-east. Its 1,770-mile course through ten countries makes it the second longest river in Europe, after the Volga. FTP, name this river that travels through four European capitals including Vienna, Budapest, Bratislava and Belgrade.

A: Danube River

13. On its first level is a museum, two restaurants and a conference center. On its second level is a souvenir shop and a snack bar. It was built to celebrate the 100th anniversary of the French Revolution. FTP, name this Paris landmark that was the tallest structure in the world from 1889 until 1930.

A: Eiffel Tower

14. This planet is the farthest from Earth visible to the naked eye, and it radiates more than twice as much heat as it receives from the Sun. It is a gas giant and the least dense of all planets. Some of its less well known moons include Pan, Atlas, Prometheus and Pandora. FTP, name this sixth rock from the sun famous for its rings and its huge moon Titan, which is bigger than Mars.

A: Saturn

15. The lethargic form of this disease may have been responsible for the symptoms demonstrated by the four young girls that initiated the Salem witch trials of 1692. This disease is spread by mosquitoes and affects humans, birds, horses and other animals. Types include eastern equine, St. Louis, western equine and the now well-publicized West Nile. FTP, identify this infection that produces inflammation of the brain.

A: Encephalitis

16. In the 1976 best-selling book *Roots*, Alex Haley traces his family tree back to this West African country. It gained its independence from the United Kingdom in 1965. Its largest tribal group, the Mandingo, are predominately Muslim. FTP, name this smallest country on the African continent whose capital is Banjul.

A: The Gambia

17. This 2001 film is based on the book of the same name written by Mark Bowden. It depicts the longest sustained ground attack involving American troops since Vietnam. Including Sam Sheperd and Tom Sizemore, and starring Josh Hartnet and Ewan McGregor, FTP name this recent Ridley Scott film set in Somalia in 1993.

A: Black Hawk Down

18. This substance may date to the time of the Roman Empire. Its name is probably derived from a Chinese word for the brine of pickled fish, and Dutch sailors introduced it to Europe in the 16th century. Since some of this condiment's ingredients were not available in England, clever British cooks would substitute a variety of other ingredients, including mushrooms, walnuts, anchovies and even oysters. British sailors returning from the Americas brought what they called Mexican love apples home that finally delivered this sauce's current taste. FTP, name this condiment that made Henry J. Heinz very rich.

A: Ketchup

19. Born in the 6th century BCE on Samos, in 530, he settled in Croton in Southern Italy. He visited Thales and attended the lectures of Anaximander in Miletus, influences that led to his creation of the mathematikoi, a vegetarian group of thinkers. FTP name this Greek who felt that all reality could be reduced to numbers and whose theorem relates the lengths of the sides of a right triangle to its hypotenuse.

A: Pythagoras

20. This dramatic character was usually portrayed as a despicable stereotype until Charles Macklin's 1741 London portrayal of him as a tragic figure. In defense of the anti-semitism he senses, he says "If you prick us, do we not bleed?" Still, this

Shakespearean usurer, the father of Jessica, draws boos for insisting on his pound of flesh. FTP name this character who hates Antonio in *The Merchant of Venice*.

A. Shylock

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1. *The Bible* cites three instances in which bodies of water were parted so that Israelites could cross them. Identify each from the clue for 10 points.

A. In *Exodus* 14:21, God parts this body of water with "a strong east wind."

A: The Red Sea

B. In *Joshua* 4:23, God dried up this body of water so that the children of Israel could pass into the promised land of Canaan.

A: The Jordan River

C. In *Kings* 2:8, Elijah struck the waters with his mantle, causing it to divide so that he and Elisha could cross to the other side.

A: The Jordan River (again)

2. Given a description of a god from mythology, name the god for 5 points and get another 5-points for identifying the chemical compound or element named for him.

A. Egyptian sun god:

A: Amon-Re (accept Re)

Ammonia (NH₃)

B. Norse god of thunder:

A: Thor

Thorium (Th)

C. Greek god of the heavens or sky:

A: Uranus

Uranium (U)

3. Answer the following questions concerning the European bombing campaign in World War II for 10 points each.

A. Name the German city that was firebombed on February 14-15, 1945.

A: Dresden

B. Identify any one of the incendiary agents used by the Royal Air Force (RAF) and US Air Force (USAF) to create the Dresden firestorm.

A: Magnesium, phosphorus or napalm (or naphthene palmitate) (accept any one of the three as correct)

C. The firebombing of Dresden is a central plot point in what Kurt Vonnegut novel?

A: Slaughterhouse-Five

4. Answer the following questions about the state of Massachusetts for 10-points each.

A. Massachusetts is an Algonquin Indian word meaning what?

A: Great mountain (reference to the tallest of the Blue Hills)

B. What is Massachusetts' nickname?

A: The Bay State

C. Harvard College was founded in 1636, making it the oldest college in the US. In what Massachusetts town can Harvard be found?

A: Cambridge

5. 30-20-10 Name this thinker.

A. (30-points) He was the grandson of a rabbi, born on May 5, 1818, in Trier in the Rhineland. One of his early works is "On the Jewish Question."

B. (20-points) He studied law at Bonn & philosophy at the University of Berlin where he

became greatly influenced by the philosophy of Georg Wilhelm Friedrich Hegel.

C. (10-points) While living in London, he wrote his best-known works, *Communist Manifesto* (1848) and a three-volume work written with Friedrich Engels.

A: Karl Marx

6. Identify the artist from the work cited FTPE:

A. *Rain, Steam, and Speed*

A: J.M.W. Turner

B. *John Buttall: The Blue Boy*:

A: Thomas Gainsborough

C. *The Water Lily Pond*:

A: Claude Monet

7. Answer these questions about the War of the Roses FTPE:

A. What battle, occurring on August 22, 1485, ended the War of the Roses?

A: The Battle of Bosworth Field

B. What House of Lancaster representative was victorious that day?

A: Henry VII (7th)

C. What House of York king lost both the battle and his life that day?

A: Richard III (3rd)

8. 30-20-10 Name this American female author.

A. (30-points) She was born in Washington, D.C. in 1896 and moved to north central Florida in 1928.

B. (20-points) Her novels include *South Moon Under*, *Golden Apples*, *The Secret River* and her autobiography *Cross Creek*.

C. (10-points) In 1939, she won the Pulitzer Prize for fiction for her best-known work, *The Yearling*.

A: Marjorie Kinnan Rawlings

9. Pencils and paper ready, find the first derivative with respect to x of each of the following FTPE:

A. $\sin(\cos 2x)$ [read: sine of the cosine of 2x]

A: $-2 (\sin 2x) \cos(\cos 2x)$ [read: negative 2 sine of 2x times the cosine of the cosine of 2x]

B. $\cosh e^x$ [read: Hyperbolic cosine of e to the x power]

A: $e^x \sinh e^x$ [read: e to the x power times the hyperbolic sine of e to the x power]

C. $\tan^2 x$ [read: tangent squared of x]

A: $2 \tan x \sec^2 x$ [read: 2 tangent x secant squared x]

10. Answer the following questions about the brain FTPE:

A. In either pounds or kilograms, what is the weight of the adult brain?

A: 3 pounds or 1.4 kg (acc. 1.2-1.6 kg)

B. Identify the portion of the brain responsible for balance and equilibrium.

A: Cerebellum

C. Identify the phospholipid-protein that forms the sheaths that give white neurons their color.

A: Myelin

11. Answer the following questions concerning animals that are threats to humans FTPE:

A. What animal belonging to the family *Culicidae* [coo-LISS-si-dee], order *Diptera* [DIP-ter-ra] is said to be responsible for more human deaths than any other animal?

A: Mosquitoes

B. What animal kills more humans in Africa than any other land or water animal?

A: Hippopotamus (*Hippopotamus amphibius*)

C. Although sharks are responsible for only 6-7 human deaths per year worldwide, they are

the most feared creature of the seas. Name any one of the three types of sharks most commonly implicated in human attacks.

A: Great white, tiger or bull (shark)

12. Answer the following questions about Rudolph Valentino FTPE:

A. In what show business-related profession did he work before becoming famous as an actor?

A: Dancer

B. In 1922, for what crime was Valentino arrested?

A: Bigamy

C. At the age of 31, Valentino died in 1926 at the height of his stardom of a complication of what illness?

A: Appendicitis

13. Answer these questions about the US Supreme Court for 5-points each:

A. Name the Supreme Court justice who, in the 1927 Buck vs Bell case, upheld a Virginia lower court decision to allow the sterilization of a woman with subnormal intelligence by saying, "Three generations of imbeciles is enough."

A: Oliver Wendell Holmes

B. How many justices were on the original US Supreme Court?

A: Six

C. How many justices are on the current US Supreme Court?

A: Nine

D. What president tried unsuccessfully to increase the number of justices to 15?

A: Franklin Roosevelt

E. What former president served as chief justice of the US Supreme Court after his term as president?

A: William Howard Taft

F. What former president in 1841 argued for the freedom of slaves from the *Amistad* slave ship before the Supreme Court?

A: John Quincy Adams

14. Answer these questions about Goethe's *Faust* for 10 points each:

A. Mephistopheles first appears to Faust as what color and breed of dog?

A: Black poodle

B. With whom does Faust fall in love?

A: Gretchen (also accept Margarete or Margaret)

C. To what event does Mephistopheles take Faust to distract him after the death of Valentin?

A: Walpurgis Night [val-PUR-ges] (accept Witch's Sabbath)

15. Name these Nobel laureates in science FTSNOP.

A. (15 pts.) This woman won the prize in Medicine/Physiology in 1983 for her discovery of mobile genetic elements.

A: Barbara McClintock

B. (5 pts. each) These three men won in 1962 for their discoveries concerning the molecular structure of nucleic acids and their significance for information transfer in living material.

A: Francis Crick, James Watson, Maurice Wilkins

16. Answer the following about St. Augustine of Hippo FTPE:

A. In what present day country would Hippo be found?

A: Algeria

B. What is the name of Augustine's spiritual autobiography that details his early sinful life and conversion to Christianity?

A: Confessions

C. What is the name of Augustine's theological interpretation of history including the decline of Rome?

A: (The) City of God

17. Answer the following questions concerning Grace Hopper, the so-called "mother of computers" FTPE:

A. Identify her best-known computer-related invention.

A: Computer compiler (it is the program that translates English instructions into the language that the computer understands)

B. What computer language is Hopper credited with writing?

A: COBOL (Common Business-Oriented Language)

C. Possibly an urban legend involving a moth, but Hopper is credited with introducing what term to our lexicon that indicates a glitch in a computer system?

A: Computer bug

18. In October 2002, the British Broadcast Corporation (BBC) released its list of the "Ten Greatest Britons in History." For 5 points each, identify members of that list from the clues given.

A. Name either of the two royals that made the list.

A: Queen Elizabeth I or Princess Diana

B. Name either of the two scientists that made the list.

A: Isaac Newton or Charles Darwin

C. Name the only playwright to make the list.

A: William Shakespeare

D. Name the naval hero that made the list.

A: Horatio Nelson

E. Name the only prime minister to make the list.

A: Winston Churchill

F. Name the only musician to make the list.

A: John Lennon

[Note: The list is completed with engineer Isambard (IZ-um-bärd) Kingdom Brunel and 17th century revolutionary leader, Oliver Cromwell]

19. 30-20-10 Name this object.

A. (30-points) Sergei P. Korolev [KOHR-ih-lehv] was its chief designer.

B. (20-points) Its name means "satellite" in Russian but has also been loosely translated to mean "fellow traveler" or "traveling companion."

C. (10-points) Its launch on October 4, 1957 was a wake-up call for the Americans to enter the space race.

A: Sputnik (or Sputnik-1)

20. Answer these questions about the September 11, 2001 attack on the World Trade Center FTPE:

A. Name either of the two flights that struck the World Trade Center.

A: American Airlines flight-11 (struck the North Tower) or United Airlines flight-175 (struck the South Tower)

B. Where did American Airlines flight-77 crash?

A: The Pentagon (accept Washington, D.C.)

C. Where did United Airlines flight-93 crash?

A: Southwest Pennsylvania (or Stony Creek Township or Somerset County, Pennsylvania)