Tossups

1. This literary character born in 1632 in York left home to become a sailor, was captured by Turkish pirates, and was enslaved at Sallee. He escaped to Brazil and started a sugar plantation, but he was sailing to Africa when his most famous adventure started with a shipwreck. FTP, identify this man who spent 28 years on a deserted island, the last four with his servant Friday, in a book by Daniel Defoe. Answer: _Robinson Crusoe_

2. The Beer-Wine Revenue Act, the Jones-Connelly Act, the Black-Conner-Perkins Act, The Gold Repeal Joint Resolution, the Motor Carrier Act, the Wealth Tax Act, the Soil Conservation Act, and the Securities Exchange Act. These were all, FTP, a part of what legislative package, which also included the Federal Emergency Relief Act, the Agricultural Adjustment Act and the Tennessee Valley Authority? Answer: the _New Deal_

3. American physicists Ting and Richter provided strong evidence of the existence of these, which were postulated in 1963 by George Zweig and Murray Gell-Mann. Components of all hadrons, three of them compose a baryon and two of them make up a meson. Until 1995, only five types had been found, but in that year evidence of the sixth flavor, the _top_, was found. FTP, name these building blocks of protons and neutrons. Answer: _quarks_

4. When a sculpture of Balzac that this man was commissioned to cast was seen with the arms hidden under a cape in a suggestive position, the commission was rescinded. Many of his most famous works originally appeared as panels in his _Gates of Hell_. Based on the influence of _The Slave_, by Michaelangelo, he deliberately left _The Kiss_ unfinished. FTP, who was this impressionist sculptor best known for _The Thinker_? Answer: Auguste _Rodin_

5. He received a forcefully worded warning from Cardinal Robert Bellarmine in 1616, but refused to cease his activities. His failure to do so led to a visit to the Inquisition in Rome in 1633, but his sentence of life imprisonment was commuted to house arrest. FTP, identify the Pisan scientist whose controversial books _The Assayer_ and _Dialogue on the Two Chief World Systems_ stemmed from his invention of an effective telescope. Answer: _Galileo Galilei_

6. He was the American League Manager of the Year in 1969 with the Washington Senators. As a baseball player himself, he hit over five hundred home runs, although he lost five years of his career serving as a flyer in two wars. This left-handed outfielder with a lifetime .344 average won the Triple Crown twice. FTP, identify this Red Sox player, who in 1941 was the last to have a .400 batting average for a season. Answer: Ted _Williams_

7. Its author reproduced the basic thematic conflicts and family traditions of _The Spy_ in this 1823 work. Remarkable Pettibone, Jotham Riddell, Billy Kirby, Hiram Doolittle, Judge Temple, and Natty Bumppo are among the characters in the novel. FTP, name this detailed portrait of frontier life in America, the first of James Fenimore Cooper's _Leatherstocking Tales_. Answer: _The Pioneers_
8. This people probably established their first settlements around 2500 BC. They did not form a unified state, but rather a group of city-kingdoms, which included Simyra, Berytus, and Tyre. Called Sidonians in the Old Testament, these people were related to the Canaanites of ancient Palestine. FTP, name this Semitic race, which was noted for its prowess sailing and trading throughout the Mediterranean region.
Answer: _Phoenician_ 

9. Pencil and paper ready. Find the roots of the following equation: \( x^3 - 12x^2 + 35x - 42 = 0 \).
Answer: _x = _3, 2, and 7_. 

10. Born Agnes Gonxha Bojaxhiu in Macedonia in 1910, in 1928 she went to Ireland to join the Institute of the Blessed Virgin Mary. Later, she founded Shanti Nagar, a leper colony, through her Order of the Missionaries of Charity. FTP, name this woman who received the Nobel Peace Prize in 1979 and who passed away in September 1997.
Answer: Mother Teresa 

11. Mikey Walsh and his friends discover a lost map in his attic. Following the map, the gang of children, including Stef, Andy, Mouth, and Chunk, come upon the hideout of a Fratelli mob. Pursued by the Fratellis, they follow the map through secret caves and past treacherous traps to find the lost gold of a pirate, One-Eyed Willy. FTP, this describes what 1985 Richard Donner film starring Corey Feldman and Sean Astin?
--Answer: The _Goonies_ 

12. He was bowling at Plymouth Hoe when he was told of his greatest victory, and he simply continued to bowl and gave an order to prepare to sail. A year later he died in a raid on the West Indies, but before he died he managed to be the first Englishman to circumnavigate the world, which he accomplished aboard the _Golden Hind_. FTP, identify this naval hero who defeated the Spanish Armada.
ANSWER: Sir Francis Drake 

13. This element, a strong and malleable metal, makes up about 0.01% of igneous rocks. Moderately hard, with a rating of 3.8 on the Mohs scale, this element melts at 2651 degrees Fahrenheit. It is used to make corrosion-resistant alloys, particularly stainless steel. For ten points, name this element with atomic number 28, the major component of most American coins.
Answer: _Nickel_ 

14. Two men are tricked by the Queen of Night into trying to rescue a woman from the castle of Sarastro, who is actually good. The two men triumph over Sarastro's enemies and save Pamina with the help of some enchanted bells and the title item. FTP, name this opera featuring Prince Tamino and Papageno, a 1791 work by Mozart which is named for an amazing musical instrument.
Answer: The _Magic Flute_ (accept Die _Zauberflote_ ) 

15. Its roots are in the British associationist school of philosophical thought, the American functionalist psychological school, and strict Darwinian thought. First developed in the early twentieth century by American psychologist James B. Watson, this school shifted the focus of psychology away from internalized thought toward the actions of the subjects. FTP, identify this psychological school most closely associated with B.F. Skinner.
Answer: _behaviorism_ 

16. The main source of information about his life is a biography in the Shih-chi by Ssu-ma Ch'ien. He supposedly lived one hundred and fifty years, and his friends included Tan, a Chinese astrologer, and Tao-Lai, a fellow philosopher. In one legendary story, he arrived at the Hsein-ku pass, and the guardian of the pass asked him to compose a book which later became the Tao-te-Ching. FTP, identify this founder of Taoism.
--Answer: _Lao-tzu_
17. The structure of this poetic form was first laid out by the Italian poet Guittone of Arezzo in the 13th century. Introduced to England by Wyatt and Surrey, it was adapted into several forms differing from the original Italian. FTP, identify this poetic form which can be written in Spenserian, Petrarchan, or Shakespearean form.
Answer: the _sonnet_

18. A severe beauty, she was the daughter of Cronus and Rhea. She fled to Arcadia to evade her suitor Poseidon, perhaps originating the myth of that land as an agrarian paradise. Particularly honored in Thessaly under the name of Despoena, Zeus mated with this goddess while both were in the form of cattle. FTP, name the goddess whose daughter Kore, the result of Zeus's lust for her grain-like hair, was also called Persephone.
Answer: _Demeter_

19. Produced by bacteria, protozoans, mosses, ferns, and fungi, these objects are enclosed by a thin cell wall to allow quick germination, and can grow into new individuals without uniting with another reproductive cell. FTP, what are these organisms which fungi, including mushrooms, drop in order to reproduce asexually?
Answer: _spores_

20. Its head streams are the Marañon and the Ucayali Rivers. Its major tributaries include the Negro and the Madeira. During a brief trip into its mouth in 1500, Vincente Pinzon spotted bare-breasted women on its shores, leading to its name. FTP, what is this river, the second longest in the world but the largest in terms of volume?
Answer: _Amazon_

21. Born in 1859, he began writing poetry at age 8. He wrote most of his poems during the 1890s on melancholy themes such as the end of youth and life. FTP, name this poet whose works include _They Say My Verse is Sad: No Wonder,_ _I When I was One and Twenty,_ and _To an Athlete Dying Young._
Answer: A.E. Housman

22. In a given circuit, two resistors with resistances of 12 ohms and 6 ohms are placed in parallel. This combination is placed in series with another 6 ohm resistor, and this combination is then placed in parallel with a 10 ohm resistor. FTP, find the total resistance of the circuit.
Answer: _5 ohms_
Bonuses

1. Show your knowledge of your host university by naming the following people who attended Vanderbilt FTP each.
   A. This man was the first U.S. poet laureate and wrote the Pulitzer Prize-winning *All the King’s Men*.
      Answer: Robert Penn Warren
   B. This famous sportswriter coined the phrase that it’s not whether you won or lost, but how you played the game.
      Answer: Grantland Rice
   C. After being Speaker of the House from Texas, he served as Franklin Roosevelt’s vice president from 1933 to 1941.
      Answer: John Nance Garner

2. Name the biological scientists who came up with the following FTP each.
   A. The binomial system for naming plants and animals.
      Answer: Carolus Linnaeus
   B. The concept of conditioned reflex in animals.
      Answer: Ivan Pavlov
   C. Defined the cell as the basic unit of animal and plant structure.
      Answer: Theodor Schwann

3. Identify these terms from political science FTP each.
   A. The Constitution says that a majority in attendance in each house of Congress constitutes this, the minimum number of members of an organization needed to make its business valid.
      Answer: _quorum_
   B. This apportioning of electoral districts to give political advantage to a party is named for a Massachusetts governor.
      Answer: _gerrymandering_
   C. Nebraska is the only state not to use this system which calls for two houses or chambers for making the law.
      Answer: _bicameral system_

4. Given a quote from a poem, say who wrote that poem FTP each. You’ll get five if you need the title of the poem.
   A. 10) If Winter comes, can Spring be far behind?
      5) Ode to the West Wind
      Answer: Percy Bysshe Shelley
   B. 10) The woods are lovely, dark and deep. But I have promises to keep, and miles to go before I sleep.
      5) Stopping by Woods on a Snowy Evening
      Answer: Robert Frost
   C. 10) Had we but world enough, and time
      5) To His Coy Mistress
      Answer: Andrew Marvell
5. FTP each, answer the following concerning a peace treaty negotiated by Theodore Roosevelt in 1905.
A. What was the name of the treaty?
ANSWER: Treaty of Portsmouth
B. The treaty put an end to what war?
ANSWER: Russo-Japanese War
C. One of the conditions of the Treaty of Portsmouth was that Russia surrender what Chinese seaport over which much of the fighting had occurred?
ANSWER: Port Arthur

6. Solve the following probability questions for 10 points each. Remember to reduce all fractions to their lowest terms.
a. A sock drawer contains 6 black, 2 brown, and 8 white socks. You reach in the drawer in the dark and pull out 4 socks. What is the probability that you have at least one matching pair?
Answer: \[
\frac{1}{3}
\] (or you must have a matching pair)
b. You put all the socks back in the drawer and remove all but one of them. What is the probability that the remaining sock is black?
Answer: \[
\frac{3}{8}
\]
c. Again you put all the socks back into the drawer, then take two socks out without looking. What is the probability that you have a matching pair?
Answer: \[
\frac{11}{30}
\]

7. Identify these groups from Greek mythology FTP each.
A. They had maidenish features with the body of a bird from the waist down, and they sang so beautifully that no man could resist.
Answer: Sirens
B. Those who observed this group turned to stone. They had golden wings, tusks like swine, and were snake-haired.
Answer: Gorgons
C. This group of three goddesses personified beauty and charm, and love flowed from their eyes. They were attendants to Aphrodite and Eros.
Answer: Graces

8. Given the name of a vitamin, identify its letter (and number if necessary) FTP each.
A. Riboflavin
ANSWER: B2 (prompt on iBi)
B. alpha-Tocopherol
ANSWER: E
C. Thiamine
ANSWER: B1 (prompt on iBi)

9. Name the artists of the following works somehow related to the mind and emotions FTP each.
A. The Persistence of Memory
Answer: Salvador Dali
B. Melancholia
Answer: Albrecht Durer
C. The School of Athens
Answer: Raphael (accept Raffaelo Sanzio)
10. Answer the following questions relating to the medieval social and economic system of feudalism.
   a) FTP, this was the basic economic unit of medieval society. The name specifically refers to the central house of the feudal master and, by extension, the surrounding estate.
      Answer: manor
   b) FTP, this was the basic land unit of the feudal system. Land was distributed in these parcels from nobles higher on the feudal hierarchy to their inferiors.
      Answer: _fief_ (accept _benefice_)
   c) For five points each, these were the two procedures each vassal underwent to show his loyalty to his lord.
      Answers: _fealty_ and _homage_.

11. Identify the 20th century American play based on a description FTP each.
   A. George Gibbs and Emily Webb, residents of a small New England town, marry, but she dies in pregnancy. The play by Thornton Wilder includes a Stage Manager who speaks to the audience.
      --Answer: _Our Town_
   B. This largely autobiographical play by Eugene O'Neill examines one day in the life of the disillusioned Tyrone family; it won O'Neill a posthumous Pulitzer Prize.
      --Answer: _Long Day's Journey Into Night_
   C. In this play by Edward Albee, a middle-aged professor, his wife, and a younger couple engage in a drinking bout full of malicious games, insults, and painful, self-revealing confrontations.
      --Answer: _Who's Afraid of Virginia Woolf_

12. Identify the colorful nicknames of the following universities FTP each.
    a. University of Syracuse
       Answer: _Orangemen_
    b. St. John's University
       Answer: _Red Storm_
    c. University of Minnesota
       Answer: _Golden Gophers_

13. For the stated number of points, given a state motto, identify the state.
   A. For 5 points, _United we stand, divided we fall_.
      ANSWER: Kentucky
   B. FTP, _Live Free or Die_.
      ANSWER: New Hampshire
   C. For 15 points, _Liberty and union, now and forever, one and inseparable_.
      ANSWER: North Dakota

14. On a 30-20-10 basis, name the religion.
    30: According to its believers, this religion is eternal and has been revealed through the successive ages of the world by the Tirthankaras.
    20: This religion divides the world into two categories: jiva, the soul or living substance, and ajiva, the non-soul or inanimate substance.
    10: Founded by Mahavira, this religion centers on the great religious figures called jinas and prohibits the harm of any form of life.
      Answer: _Jainism_

15. FTP each, identify the Greek letter that represents each of the following in mathematics.
    a. represents sum
       Answer: _sigma_
    b. represents partial derivative
       Answer: _delta_
    c. represents infinity
       Answer: _omega_
16. Identify the composers of the following pieces FTP each. All of their names begin with the same letter.
A. Bolero
Answer: Maurice _Ravel_
B. Rhapsody on a Theme of Paganini
Answer: Sergei _Rachmaninoff_
C. The Barber of Seville
Answer: Gioacchino _Rossini_

17. Identify the author from works.
30 - Diamond As Big As The Ritz, The Crack-Up
20 - The Beautiful and the Damned, Tales Of The Jazz Age
10 - Tender Is The Night, The Great Gatsby
Answer: F. Scott _Fitzgerald_

18. Identify the prominent politicians from their illicit loves FTP each.
A. This president was rumored to have had affairs with many women including Marilyn Monroe.
Answer: John Fitzgerald _Kennedy_
B. He showed that such things ran in the family when his poor driving skills resulted in the death of his friend Mary Jo Kopechne on Chappaquiddick Island.
Answer: Senator Edward _Ted_ Kennedy _ (accept Edward Kennedy)
C. This politician represented Chicago's South Side but is presently serving a five year prison term in part for illegal sexual relations with an underage campaign worker.
Answer: _Reynolds_, Mel

19. For the stated number of points, give the SI units of the following measurements.
A. For 5 points, pressure.
ANSWER: Pascal
B. FTP, luminous intensity.
ANSWER: Candela
C. For 15 points, inductance.
ANSWER: Henry

20. Given a date, name the significant battle which took place on that date for the stated number of points.
A. 5 points: October 14, 1066
Answer: Battle of _Hastings_
B. 10 points: June 17, 1775
Answer: Battle of _Bunker Hill_
C. 15 points: September 23, 480 BC
Answer: Battle of _Salamis_