

TOSSUPS – ROUND 5 TREVOR'S TRIVIA: BOB SELCER MEMORIAL 2002 -- UT-CHATTANOOGA
REQUIRES ATTACHMENT FOR BONUS

1. National headquarters are in Indianapolis for this organization, founded March 15-17 1919 in Paris, where it got the French title for its honorary fun subgroup that translates "40 men and 8 horses." Chartered by Congress later in 1919, it is struggling with dwindling membership in many local chapters, of posts. For 10 points -- name the veterans group which sponsors a namesake baseball league for teens.

Answer: **American Legion**

2. In eukaryotes, it occurs in the cytosol. It can be expressed by the formula $C_6H_{12}O_6 + 2NAD^+ \xrightarrow{(yield)} 2C_3H_4O_3 + 2NADH + 2H^+$. The this stage in anaerobic respiration, pyruvic acid is made but cannot enter the Krebs cycle, and produces a net gain of 2 ATP from one glucose molecule. FTP, what is this first stage of cellular respiration where glucose is converted into two molecules of pyruvic acid?

Answer: **Glycolysis**

3. He began his political career in 1915 as Lord Mayor of Birmingham and went on to become Post Master General and Minister of Health under Baldwin and Chancellor of the Exchequer under Ramsay MacDonald. A Conservative, he helped abolish the Poor Law and reorder unemployment aid, but his opponents resented his emphasis on administrative detail and individual responsibility. As Prime Minister he accepted Mussolini's conquest of Ethiopia, provided he'd stop intervening in Spain. FTP name Churchill's predecessor, who promised "Peace in our times" after appeasing Hitler at Munich.

Answer: **Neville Chamberlain.**

4. Exiled from his home in Westphalia, he is impressed into the Bulgarian army where he sees the horrors of war, escapes to Holland where he is helped by the Anabaptist Joseph and accompanies him to Lisbon where he is caught in an earthquake. He then kills the Grand Inquisitor when caught with Cunegonde, his true love back in Germany. He escapes to Paraguay in the Spanish army where after a series of misadventures he discovers El Dorado. However, he loses his treasure on the way back to Europe but eventually reunites with Cunegonde and saves his old friend Doctor Pangloss from slavery aboard a Turkish galley, finally buying a farm near Constantinople. FTP name this title hero of a Voltaire work.

Answer: **Candide.**

5. He was drowned in boiling water by the daughters of Cocalus, king of Carmicus, while pursuing the fugitive Daedulus. This brought to an end a sequence of events which included, in no particular order, the murder of his son, Androgeos, after winning all the events in the Panathenaic games; the sack of the city of Megara after it was betrayed by Scylla, his refusal to sacrifice a bull which had been given to him by Poseidon, and his wife's subsequent copulation with that bull. FTP name this father of Phaedra and Ariadne, opponent of Theseus, judge of the dead in Hades, and ruler of Crete.

Answer: **Minos.**

6. Normally produced by free radical vinyl polymerization, the syndiotactic variety is made via metallocene catalysis vinyl polymerization. This newer version is crystalline and doesn't melt until 270 degrees Celsius. The more familiar version is used to make television cabinets, CD jewel cases, and coffee cups. Consisting of hydrocarbon chain with a phenyl group attached to every other carbon atom, FTP, name this polymer best known under the tradename Styrofoam.

Answer: **polystyrene**

7. His mother was neighbors with Oscar Hammerstein, which might explain his fascination with musical theatre. Much of his work in the 1970's was in collaboration with producer Hal Prince, but that partnership ended with *Merrily We Roll Along*. FTP, name this contributor to American theatre whose works include *Company*, *Into The Woods*, *Sweeney Todd*, and *A Funny Thing Happened On The Way To The Forum*.

Answer: **Stephen Sondheim**

8. The original one was settled by the Treaty of Nanking, but over a decade later there was a sequel, which went on another two years after the Treaty of Tientsin was rejected by China. The British, later joined by the French, were on the other side of a war on drugs by Chinese authorities, who sought to stop drug smuggling and insisted on forfeiture of all stocks of drugs in the hands of British merchants. FTP give the common name for these two wars of the 1840's and 1850's.

Answer: **Opium War(s)**

9. The author of theoretical treatises on fortifications and human proportions, a great deal is known about his life from his detailed diary and numerous self-portraits. A native of Nuremburg, he supported Luther's new ideas as evidenced by his painting *Four Apostles* in which he emphasizes the Bible and places John before Peter. He also painted the botanically correct *The Great Piece of Turf*, but is better known for another medium. FTP name this engraver of *The Fall of Man*, *Saint Jerome in His Study*, and *Knight, Death and the Devil*.

Answer: **Albrecht Durer.**

10. In the absence of friction, geostrophic wind flows parallel to isobars because this is in balance with the pressure gradient force. Its magnitude increases with the sine of latitude and its minimum is at the equator. FTP name this apparent force which exists due to the rotation of the earth and which deflects the wind to the right in the northern hemisphere.

Answer: **Coriolis Force.**

11. Part of this novel was completed and published separately in 1919 under the title "Before the Law," in the collection *A Country Doctor*. However, it was unfinished at the author's death in 1924, and was published in 1925 despite the author's wish that all his uncompleted works should be destroyed. The book begins, "Someone must have traduced Joseph K. for without having done anything wrong he was arrested one fine morning" and ends with Joseph K's brutal murder by two men. FTP name this Franz Kafka work about a man condemned by a callous court system.

Answer: **The Trial, or Der Prozess.**

12. He failed in his 1958 bid for governor largely because he accepted the support of the NAACP while his opponent John Patterson catered to the Ku Klux Klan. In future elections he would change his stance, supporting segregation, although in 1982 he was elected to his fourth term as governor on a populist platform appealing to both blacks and whites. He was shot and left paralyzed during the presidential primaries of 1972 by Arthur Bremer, four years after he had captured 46 electoral votes running on the American Independent Party platform. FTP name this Alabama politician.

Answer: **George Wallace.**

13. Russel Crouse co-produced *The Sound of Music* on Broadway. Franklin P. Adams coined the famous phrase "Tinker to Evers to Chance." Harpo Marx may seem out of place since he wasn't known as a writer, but these men, along with writers Marc Connelly, Heywood Brown, Robert Sherwood, George Kaufman, Alexander Woolcott, and Robert Benchley, all ate at the same dining room in New York City and shared their acid wit. FTP name their group, perhaps best known for the witticisms of Dorothy Parker.

Answer: **The Algonquin Roundtable**

14. It was said of him, "Somebody from his family had fought and died in every single American war. I guess you could say he had a lot to live up to." However, he merely had his legs blown off while leading a platoon in Vietnam; it still took him years to recover psychologically, although he eventually married an Asian woman named Susan. He came to terms with God and his injuries during a storm while first-mate of the shrimp boat "Jenny." FTP name this character, played by Gary Sinise, the friend of Forrest Gump.

Answer: **Lieutenant Dan Taylor.**

15. Observations with the Hubble Space Telescope suggest that it may have two cores. The light arriving at earth from it is shifted toward the blue end of the spectrum, whereas the light from all other cosmic sources exhibits red shift. Cataloged as M31 and NGC 224, this spiral galaxy is the largest member of the Local Group, a group of about 30 galaxies that includes both our own Milky Way and M33. FTP, identify this galaxy which is generally regarded as the most distant object visible to the human eye.

Answer: **Andromeda Galaxy**

16. Pencil and paper ready. At the local science fair, there are 64 projects in each of 56 divisions. Before multiplying these numbers, you realize that 64 can be written as (60+4) and 56 can be written as (60-4) and these binomials subsequently multiplied. FTP give the total number of projects in the science fair.

Answer: **3,584**

17. Traditional belief still dominates the religious scene, although Catholicism and Protestantism are heavily represented. Its major exports are oil, diamonds, and minerals and its currency is the Kwanza. It is governed by the democratically elected Jose Eduardo dos Santos who has been fighting a sporadic civil war with Jonas Savimbi and the UNITA for the past ten years. Bordered by Zambia, Namibia, and Zaire, FTP name this former colony of Portugal, on the south-western coast of Africa with capital at Luanda.

Answer: **Angola.**

18. His father, a converted Christian, collaborated with the U.S. but later renounced them when they illegally took land. Although newspapers called him "The Red Napoleon," it was really his younger brother Olikut and another chief named Looking Glass who led the warriors. His retreat was forced upon him when 20 warriors raided a settlement after being commanded into reservations by General Oliver Howard, and after an amazing 1000 miles it fell just 30 miles short of his Canadian destination. FTP name this Nez Perce chief who then said, "I will fight no more forever"

Answer: **Chief Joseph.**

19. William Davenant, Colley Cibber, William Whitehead, Alfred Austin, Thomas Shadwell, Robert Southey, Robert Bridges, John Betjeman, John Dryden, John Masefield, and Cecil Day Lewis all held this office. The first to officially hold it was Ben Jonson, and the current holder is Ted Hughes. FTP William Wordsworth from 1843-1850 and Alfred, Lord Tennyson from then until his death in 1892 held this office, the official court poet of England.

Answer: **Poet Laureate.**

20. Opened by Garnet Carter in 1932, its main claim to fame was the observation deck from which visitors could see seven states. It gained fame not as an attraction, but for the advertising to this attraction, painted by Clark Byers on the roofs of barns across 19 largely Southern states from 1936 to 1968. For 10 points, the 200 or so remaining barns demand you see what tourist destination, the world's eighth wonder, atop Georgia's Lookout Mountain across the border from Chattanooga.

Answer: **Rock City**

EDITOR'S NOTE: I didn't write *this* one either.

21. They have adopted the Bantu language of nearby tribes, the same crop-growing tribes whose forest-clearing wiped out much of their habitat. Today they number around 150,000, scattered in parts of Burundi, Cameroon, both Congos, the Central African Republic, and other central African nations. The percent still following their traditional hunter-gatherer way of life is rapidly declining. FTP give the name commonly applied to several tribal groups of the rain forest, distinguished by their extremely short stature.

Answer: **pygmy (-ies)**

22. He rebelled from his father and teachers by converting to Roman Catholicism and was sent to Lausanne, Switzerland, where he spent much of his later life, to be boarded by a Calvinist minister. His early writings, heavily indebted to Montesquieu, were written in French, and he was convinced only by another idol, David Hume, to write his masterpiece in English. That work, once attacked for its critical views of Christianity, is now regarded as the greatest history written in that language. FTP name this author of *The Decline and Fall of the Roman Empire*.

Answer: **Edward Gibbon.**

23. An example is the trial of Hamlet. Established to argue hypothetical cases, they are often used in law school as a teaching technique. For 10 points identify this fictitious judicial proceeding?

Answer: **Moot Court**

REQUIRES ATTACHMENT FOR BONUS

1. Choose Your Own Bonus! Which would you prefer – 19th century philosophy or 21st century TV? Choose now.
IF PHILOSOPHY: Identify key works of 19th century Continental Philosophy, FTPE.

1. This Hegel masterpiece was supposedly completed on the same day in 1807 as Napoleon's victory at Jena. It described how the human race and reason were progressing, beginning with Sensory Consciousness, progressing onto the Perceptual Consciousness of Aristotle and finally to the Understanding Consciousness of Kant.

Answer: **Phenomenology of Spirit.** (accept mind instead of spirit)

2. This Soren Kierkegaard work consists mostly of aphorisms and literary references and is subtitled A Fragment of Life. It contrasts the aesthetic and ethical way of living eventually advocating some compromise of the two.

Answer: **Either/Or** or **Esten-Eller.**

3. The goal of this Frederick Nietzsche work, subtitled *A Book for Everyone and No One*, was to overcome the nihilism of Schopenhauer. Its author does this by declaring god dead and offering "a new faithfulness on the earth" based on the *Urbemensch* or over-man.

Answer: **Thus Spake Zarathustra** or **Also Sprach Zarathustra.**

IF TV: Identify the shows new to this year's fall network lineups, FTPE.

1. Television producer Jake Silver, played by Mark Feuerstein, takes a job at a local station after he is smitten by its hair stylist played by Ashley Williams. Apparently wordplay confusing bonk with boink is the best its writers could do.

Answer: **Good Morning Miami.**

2. A dope moves in with his wife's parents played by Jean Smart and Dennis Farina who obviously didn't learn his lesson after Buddy Faro.

Answer: **In Laws.**

3. Crimes are seen from the views of cops, paramedics, and reporters in this new NBC drama starring Mykelti Williamson, Donnie Wahlberg, and Jason Gedrick.

Answer: **Boomtown.**

2. Answer the following about the French and Indian War for ten points each.

When the French threw up a series of forts along the Allegheny, a young major named George Washington defeated the French near Great Meadows, where he hastily threw up this stockade that he was later forced to surrender.

Fort **Necessity**

This first British General to set foot in the colonies then took control of the war effort, but was routed by a French force half his size at Fort Duquesne.

Edward **Braddock**

What commander of Fort William Henry surrendered to a vastly superior French force only to be attacked by Native American allies of the French once his men left the fort?

George **Munro**

3. Paper and pencil ready. Answer the following about an arithmetic sequence FTPE. You have 10 seconds per part.

A. For a sequence that begins 3, 7, 11, ... , what is the 10th term in the sequence?

Answer: **39** [$a_{10} = a_1 + d(n-1) = 3 + 4(10-1) = 39$]

B. For an additional 10 points, what is the sum of the first 10 terms of that sequence?

Answer: **210** [$S_n = n/2 (a_1 + a_n) \rightarrow S_{10} = 10/2 (3 + 39) = 210$]

C. If the first term of the sequence were still 3, but the difference between terms were 5 instead of 4, what would be the sum of the first 10 terms?

Answer: **255** [$S_n = n/2 \{2a_1 + d(n-1)\} \rightarrow S_{10} = 10/2 \{2(3) + 5(10-1)\} = 255$]

4. Three quarks for Muster Mark!" and 3 questions concerning quarks for ten points apiece.

1. First, name either scientist that proposed the existence of quarks in 1964.

Answer: Murray **Gell-Mann** or George **Zweig.**

2. The strange quark was discovered in what long lived meson?

Answer: **kaon** or **K** meson.

3. What is the term for any particle that is made of quarks and interacts via the strong nuclear force?

Answer: **hadron.**

5. Give the British poets from clues FTPE

1. This Jesuit is known for his innovative technique and poetical devices, especially sprung rhythm. His most famous works include "The Wreck of the Deutschland" and "Pied Beauty."

Answer: Gerard Manley **Hopkins**.

2. This poet published his first and greatest collection, *Shropshire Lad* in 1896. He often focuses on the fleetingness and decay of youth as seen in "Terence, this is stupid stuff," and "To an Athlete Dying Young."

Answer: Alfred Edward **Housman**.

3. This Irish poet and dramatist won the 1923 Nobel Prize for literature. His most famous poems include "Sailing to Byzantium" and "The Second Coming."

Answer: William Butler **Yeats**.

6. Identify the Liberators of South America from clues FTPE.

1. This Argentine general helped secure the independence of his own country and then crossed the Andes. He won victories at Chacabuco and Maipu to free Chile and then liberated Peru and became its "Protector." His career ended when he gave precedence to Bolivar at the Conference of Guayaquil.

Answer: Jose de **San Martin**.

2. A bastard son of the viceroy of Spain, this commander led the Chilean forces in a heroic defeat at Rancagua. A few years later he returned as one of San Martin's lieutenants helping him at Chacabuco and becoming Director of Chile.

Answer: Bernardo **O'Higgins**.

3. Bolivar's chief lieutenant, he beat the Spaniards at Pichincha to free Quito and later defeated the last large Spanish army on the continent at Ayacucho in 1824. He became president of Bolivia, but was killed in 1830 on his way home to Quito.

Answer: Antonio Jose de **Sucre**.

7. *[give captain the handout labeled Round 5]*

Refer to the attachment. For each painting, name the women who painted it FTPE:

1. Figure A.

Answer: **Artemisia Gentileschi**.

2. Figure B.

Answer: Mary **Cassatt**.

3. Figure C.

Answer: Frida **Kahlo**.

8. FTP, given lyrics from the Coldplay album "Parachutes," name the song.

10: Did I drive you away? / I know what you'll say, / You say, "Oh, sing one we know," / But I promise you this, I'll always look out for you, / That's what I'll do.

Answer: **Sparks**

10: Look at the stars / Look how they shine for you / And everything you do

Answer: **Yellow**

10: And we live in a beautiful world, / Yeah we do, yeah we do, / We live in a beautiful world

Answer: **Don't Panic**

9. The name is bond... chem bond. Give the bond chemistry terms from definitions, FTPE.

1. The charge that results when the electrons in a covalent bond is assigned to the more electronegative atom, it is the charge an atom would possess if the bonding were ionic.

Answer: **oxidation number** or **oxidation state**.

2. In double and triple bonds, this type of bond named for a greek letter is formed from the sideways overlap of p orbitals.

Answer: **pi** bond.

3. This type of bond results in molecules that pi bonds and more than resonance structure, such as benzene. Such bonding is not accurately described in terms of electron-pair bonds between neighboring atoms.

Answer: **delocalized** bond.

10. FTPE answer questions about a classic of Late Medieval British literature, *Morte de Arthur*.

1. The author of *Morte D'Arthur* who probably wrote the work while imprisoned during the Wars of the Roses.

Answer: Sir Thomas **Malory**.

2. This man, who printed the first book ever in English, *the French Romance, Recuyell of the Historyes of Troye*, which he himself translated, printed *Morte D'Athur* in 1485 after establishing the first printing press in England in 1476.

Answer: William **Caxton**.

3. This poet also wrote a *Morte d'Arthur*, a roughly 300 line poem, in 1834. He later revised it, entitled it "The Passing of Arthur," and incorporated it into his *Idylls of the King*.

Answer: Alfred, Lord **Tennyson**.

11. 5-10-20-30, what are the capitals of these "New" Canadian Provinces?

A. Newfoundland

Answer: **St. John's**

B. Nova Scotia

Answer: **Halifax**

C. New Brunswick

Answer: **Fredericton**

D. Nunavut

Answer: **Iqaluit** [be generous on pronunciation]

12. Identify the book of the Bible from its closing lines FTPE.

1. "For the cloud of the Lord was upon the tabernacle by day, and fire was on it by night, in the sight of all the house of Israel, throughout all their journeys."

Answer: **Exodus**.

2. "In those days there was no king in Israel: every man did that which was right in his own eyes"

Answer: **Judges**.

3. "And there are also many other things which Jesus did, which, if they should be written everyone, I suppose that even the world itself could not contain the books that should be written. Amen."

Answer: Gospel According to **John**.

13. Name the following Monarchs of England related to John of Gaunt FTPE.

The father of John, he led England into the Hundred Years War. The descendents of his 12 children contested the throne amongst themselves until the end of the War of the Roses.

Answer: Edward III

The son of Edward the Black Prince and nephew to John, he succeeded Edward III and during his reign fought with the so called Lords Appellant.

Answer: Richard II

Upon the death of John, Richard II seized his inheritance. This member of the Lords Appellants, then known as Bolingbroke, reclaimed his father's right and usurped the throne, ruling until 1413.

Answer: Henry IV

14. Identify the following 20th century classics of proletarian literature.

1. This Richard Wright drama chronicles a few days in the life of Bigger Thomas, a young black man in Chicago. He unintentionally kills a white heiress and ends up on death row after raping and killing another woman.

Answer: **Native Son**.

2. This John Dos Passos trilogy consists of *The 42nd Parallel*, 1919, and *The Big Money*. It spans the time from just before WWI to the Great Depression.

Answer: The **U.S.A. Trilogy**.

3. This Clifford Odets play concerns a taxi-strike and is heavily steeped in Communism. Harry Fatt the Union leader advises the drivers not to strike, but they are led forward by the fiery Agate just as the title character has been discovered shot.

Answer: **Waiting for Lefty**.

15. Name the SI derived unit for used to measure the following quantities 5-10-20-30:

1. solid angle

Answer: **steradian**

2. radiant flux

Answer: **watt**

3. magnetic flux

Answer: **weber**

4. luminous flux

Answer: **lumen**

16. Answer these questions about 19th century British politics, FTPE.:

[10] He was a Whig MP who helped formulate a new penal code and educational reforms in India, but gave up politics to write a 5 volume History of England

Answer: Thomas Babington **Macaulay**

[10] He organized the Conservative Party from the old Tories, and was prime minister from 1841 until he resigned in 1846 following the repeal of the Corn Laws. He's also the source of a nickname for British policemen.

Answer: Sir Robert **Peel**

[10] As Prime Minister in 1870, he helped pass the Education Act. A leader of the Liberal Party, he pushed the Ballot Act for secret voting, and supported Irish Home Rule.

Answer: William **Gladstone**

17. Identify the Sergey Prokofiev works from clues FTPE.

1. This was his first successful opera and widely regarded as his best. It was written while Prokofiev was in the U.S. and was based on an 18th century Carlo Gozzi play. Its cast features ten 'ridiculous people,' a chorus of 'little devils,' a 'Gigantic Cook' and a smattering of princesses."

Answer: **The Love for Three Oranges.**

2. This orchestral masterpiece for children was written after Stalin's policies became more oppressive regarding music. All the characters, among them a duck and a cat, are represented by different instruments.

Answer: **Peter and the Wolf.**

3. Prokofiev intended a happy ending for this musical adaptation of a Shakespeare play for ballet because "Living people can dance, the dying cannot." He was dissuaded by the choreographer and the music closely follows its source play.

Answer: **Romeo and Juliet.**

18. Consider a dihybrid cross between two individuals heterozygous for both traits. FTPE:

1. Give the total number of different phenotypes possible for the offspring.

Answer: 4

2. What fraction of the offspring will show the dominant phenotype in trait A and the recessive phenotype in trait B?

Answer: 3/16

3. Give the total number of different genotypes possible for the offspring.

Answer: 9

19. FTPE identify these credit cards from clues

A. It was founded in 1966 by the Interbank Card Association, it introduced the gold bankcard, the credit card hologram, and online debit

Answer: **Mastercard**

B. It was founded as the BankAmericard in 1958 by the Bank of America, and changed its name in 1977, and is now owned by 21000 financial institutions. It was the first to allow deferred payments with a finance charge

Answer: **Visa**

C. Founded by Sears, it is now owned by Morgan Stanley. It was the first card to give money back to attract users.

Answer: **Discover Card**

20. Because Stone Cold said so: Give the Austen work from the main male characters FTPE.

1. Mr. Elton, Robert Martin, Frank Churchill, Knightly.

Answer: **Emma.**

2. Thomas Bertram, Henry Price, Edmund.

Answer: **Mansfield Park.**

3. Wickham, Bingley, Darcy

Answer: **Pride and Prejudice.**

21. Name these 20th century economists from clues FTPE.

1. This author *The General Theory of Employment, Interest, and Money* may have been the most influential economist of the century. He attacked classical economics arguing that during depressions governments should spend on a deficit thus controlling aggregate demand and thereby aggregate output and unemployment.

Answer: John Maynard **Keynes.**

2. This Swedish Economist shared the 1974 Nobel Prize with intellectual enemy Frederick Hayek. He authored *An American Dilemma* and *Asian Drama: An Enquiry into the Poverty of Nations*, in which he argued that both on an individual and national level, the rich get richer and the poor get poorer.

Answer: Gunnar **Myrdal.**

3. This Canadian-born economist wrote *The Affluent Society* in which he tried to destroy the myth of "Consumer Sovereignty" as well as *The New Industrialist* in which he attacked what he viewed as the oligarchy of large corporations.

Answer: John Kenneth **Galbraith.**

Round 5, Bonus 7 -- Figure A



Figure B



Figure C

