

TOSSUPS – ROUND 6**DENNIS HASKINS OPEN 2002 -- UT-CHATTANOOGA**

1. This city's most famous TV reporter is Stanley Whitfield, & its major store is Malph's. The Morebux family is the richest, & Police Chief Hittledee has arrested Lenny Baxter & Harold Smith. For a time, the town seemed to be protected by Major Man, but he was a fraud exposed near Miss Keane's kindergarten at Pokey Oaks. FTP, name this city also populated by Miss Sara Bellum, Professor Utonium, Mojo Jojo, & the Powerpuff Girls.

Answer: **Townsville**

2. One of seven sons of the Earl of Cork, he was a director of the East India Company and helped to found Britain's Royal Society. A proponent of an early version of the atomic theory of matter, he formulated the first chemical definitions of an element and a reaction. He invented an efficient vacuum pump, which he used to establish his best known discovery. FTP name this chemist, whose namesake law states that at a constant temperature, pressure and volume of a gas are inversely proportional.

Answer: **Robert Boyle**

3. He was envious of the skill of his nephew, Perdix, and tried to push him off a tower. This inventive Athenian, the son of Metion and grandson of Erechtheus, is the patron of artists' and craftsmen's guilds. He landed safely in Sicily after escaping his own construction, the labyrinth of King Minos, and his name was later used by James Joyce for the surname of an artist. FTP, name this mythical architect who fashioned wax wings for himself and for his son, Icarus.

Answer: **Daedalus** (do not accept "Stephen Dedalus")

4. This "conspiracy in restraint of trade" was ironically broken by the use of the Sherman Antitrust Act, upholding a major employer's 40% wage cut. Attorney General Richard Olney secured an injunction whose violation secured Eugene V. Debs jail time, and President Cleveland secured the wrath of labor by sending federal troops to Chicago under the pretext of securing the mails. FTP, the wage cut and exorbitant rents caused what 1894 strike, whose chief target was the plush railway cars of a famous company?

Answer: **Pullman strike**

5. Her last words, spoken before an unsuccessful cancer operation in 1946, were, "What is the question?" Her Paris home was a salon for Cubist painters and experimental writers, and some argue that the enigmatic minimalism of works like *Tender Buttons* was the inspiration for macho man Ernest Hemingway's terse prose. How ironic. FTP, name this Oakland-born lesbian writer for whom a rose was a rose was a rose.

Answer: **Gertrude Stein**

6. In 1950 a Dutch astronomer first inferred the existence of this astronomical entity, now named for him. It surrounds our planetary system and marks the furthest boundary of the sun's physical and gravitational influence. Recently the source of Hale-Bopp, FTP what is this immense spherical region which generates comets, not rain?

Answer: **Oort Cloud**

7. Painted in 1872, the figures of several tall ships are barely visible in the haze of the background. In the foreground is the darkened image of a small boat, the rudderman standing up. The dark orange sun hangs above the boat. FTP this describes what Claude Monet painting that provided the name for the art movement to which he belonged?

Answer: **Impression: Sunrise**

8. "The tip of the tongue taking a trip of three steps" taps out her name. Annabel had died of typhus four months after the narrator's childhood romance with her. Enter Charlotte Haze and her 12 year old daughter Delores. FTP, name this lass whose nickname is the title of the Nabokov novel in which the lecherous Humbert Humbert seduces her.

Answer: **Lolita**

9. He was a gifted musician and an intellectual friend and patron of Voltaire. He was also a skilled negotiator, as seen by his gains in the first partition of Poland and the withdrawal of the Russians after they'd beaten him and conquered Berlin. And he was an even better general, as shown in his taking of Silesia in the War of the Austrian Succession and his survival against a superior enemy alliance in the Seven Years War. FTP name this 18th century Prussian king.

Answer: **Frederick the Great or Frederick II** [Friedrich is OK in either case, but **not** Frederick William]

10. In 1883, it became the first nation to grant women the vote, though it didn't become fully independent until 1907. Feel free to snicker when you hear that its current Governor-General is Michael Hardie-Boys, but its real political head is Prime Minister Helen Clark. The 1840 Treaty of Waitangi attempted to regulate relations between settlers and the native Maori population. The Gold Rushes of the 1860s helped to encourage the settlement of South Island, which is separated from North Island by the Cook Strait. FTP, what is this Pacific nation with capital at Wellington?

Answer: **New Zealand**

11. The major director of macromolecular transport in cells, it's where proteins from the ribosomes are stored, chemically modified, given carbohydrate tags to mark their destinations, and packaged in vesicles. These subcellular organelles are formed of stacks of flattened, folded membranes. FTP what are these organelles, named after the Italian who discovered them in 1898?

Answer: **Golgi apparatus (or bodies or complex)**

12. By the end of the book the title character, who is of a middle-class background, is a wealthy foreign land owner. As it opens 30 years earlier, the hero's father begs him not to leave home. He catches a ship to London from his home in Hull, on which trip his ship gets caught in a minor storm and he gets a major case of sea-sickness. This leads to the way he spent 29 of those years. FTP, this is a brief plot summary of what novel by Daniel Defoe where a man is befriended by a savage named Friday on an island after a shipwreck?

Answer: **Robinson Crusoe**

13. Not an organized whole, they represented various groups: the National Mobilization against the War and the Youth International Party to name a couple. Five were tried and found guilty in 1970, though an appeals court overturned the verdicts in the fall of 1972. Rennie Davis, David Dellinger, John Froines, Tom Hayden, Abbie Hoffman, Jerry Rubin, and Lee Weiner were members of, FTP what group that was accused of conspiring to incite the riots that occurred during the 1968 Democratic National Convention?

Answer: The **Chicago 7** [accept Chicago Eight before "and Lee Weiner" – there was an 8th for a time]

14. This place will celebrate Founders Day in May, marking the 70th anniversary when Frieda Center and her husband Gordon, the inventor of miniature golf, opened it for business. In the fall, you can walk through the cornfield maze, in the winter you can see the Enchanted Garden of Lights. Other attractions here include Fairyland Caverns, Mother Goose Village, Fat Man's Squeeze and Swing-A-Long Bridge. FTP, name this geological roadside wonder in Chattanooga where you can allegedly see seven states.

Answer: **Rock City**

15. This fruit, native to the area from Iran to northern India, has a rich red interior and has been grown around the Mediterranean since Classical times. The bodyguards of Cyrus the Great were identified by a golden one on their spears. Because Persephone ate a single seed from one of these, she was forced to spend four months of every year in Hades. FTP what is this fruit whose botanical name is *punica granatum*?

Answer: **pomegranate**

16. Its creator responds to critics by saying "they have never seen an angry penguin charging at them in excess of 100 mph. They'd be a lot more careful about what they say if they had." This operating system is far more stable than Microsoft operating systems, and its creator, Linus Torvalds, is revered by his users rather than reviled. FTP name this Unix derivative whose flavors are sold by Suse, Debian, Caldera, and RedHat.

Answer: **Linux**

17. He was known to have a fierce temper; once during an argument with an opera singer, he picked her up by the waist and dangled her out of a second-story window. Trained in law as well as music, he produced the operas *Almira*, *Ottone*, and *Orlando* and the orchestral *Music for the Royal Fireworks* and *Water Music*. FTP name this German-born composer whose acclaimed oratorios include *The Messiah*.

Answer: George Frideric **Handel**

18. This author's *Collected Works*, first published in 1950, contains 1,775 poems, of which only seven were published in her lifetime. The one-woman drama *The Belle of Amherst* depicts her almost-total seclusion in Massachusetts. FTP name this author, many of whose poems can be sung to the Gilligan's Island theme, as with "I Heard a Fly Buzz When I Died" and "Because I Could Not Stop for Death."

Answer: Emily **Dickinson**

19. Among the casualties was Elbert Hubbard, bestselling author of *A Message to Garcia*. A German U-boat captain noted in his log, "Shots hit starboard side right behind bridge. An usually heavy detonation follows." Noted for its speed, it ignored warnings to avoid the area and to travel in a zigzag pattern. It was within sight of Ireland when it sunk in just 18 minutes, killing nearly 1,200 of the 1,924 people aboard. FTP, name this sister ship of the *Mauritania*, whose sinking on May 7, 1915, failed to immediately bring the U.S. into World War I.

Answer: the **Lusitania**

20. For a current loop, it is given by the current times the cross product of the area moment and the magnetic field produced by the loop. For an ordinary particle, it is defined as the cross product of the force and a radius vector. FTP what is this quantity, the rotational analog of force?

Answer: **torque**

21. Made in Carduel, it came into the possession of King Leodegraunce of Camiliard, who used it as a dowry for his daughter. Among those with places reserved at it were Torre the first made, Lamerok the brave, and Palamedes the Saracen. Originally made by Merlin for Uther Pendragon, FTP, what was this table which could seat 150 of Arthur's knights?

Answer: the **Round Table**

22. In Roman mythology, this term denoted the spirit which presided over the birth of every male and attended him throughout life. Considered to be a man's higher self, these spirits also existed for families, tribes, and the Roman people. Only later was it used to describe an extraordinary talent, in particular great intelligence. FTP what is this term which many of you might mistakenly use to describe yourselves?

Answer: **genius**

23. The name's the same. In 1942, it starred William Powell, Hedy Lamarr and Basil Rathbone in a story about a diplomat blackmailed for crimes committed while he had amnesia. In 1986, it starred Ralph Macchio tracking down an old blues musician in New Orleans. In 2002, it's a story of three Georgia high school girls traveling across the country to chase their dreams. FTP, name this title shared by the above movies, the last being the film debut of Britney Spears.

Answer: **Crossroads**

1. Does Hell have a bureaucracy? If so, then FTP name these Nazis who might have jobs in it:

a) One of Hitler's longest-serving deputies was this unassuming-looking chief of the SS.

Answer: Heinrich **Himmler**

b) As Germany's Foreign Minister, this man concluded such deals as the 1939 non-aggression pact with Russia.

Answer: Joachim von **Ribbentrop**

c) Hitler's Minister of Propaganda, he and his wife also committed suicide in the bunker with Hitler, first poisoning their six children with strychnine-laced chocolate.

Answer: Joseph **Goebbels** [pronounced GRR-bulls, but accept any reasonable pronunciations]

2. FTPE name the 19th century French artists of the following works:

a) "Bathing at Asnieres," "Sunday Afternoon on the Island of La Grande Jatte," and "The Bathers"

Answer: Georges **Seurat**

b) "Luncheon of the Boating Party," "Le Moulin de la Galette," and "The Bathers." No, not the same "The Bathers."

Answer: Pierre Auguste **Renoir**

c) "Card Players," "House of the Hanged Man," and – you guessed it – "The Bathers"

Answer: Paul **Cezanne**

3. 30-20-10, name the mathematician.

[30] He did work on the theory of errors of observation and on the curvature of surfaces.

[20] He proved a circle could only be divided into n parts with a compass and straightedge only if n is the product of distinct Fermat primes and a non-negative power of 2.

[10] A child prodigy and the author of *Disquisitiones Arithmeticae*., he also gave six proofs to the law of quadratic reciprocity and four different proofs of the fundamental theorem of algebra.

Answer: Carl Friedrich **Gauss**

4. FTPE, given works by an American author influenced by naturalism, name the author FTPE:

a) *The House of Mirth* and *Ethan Frome*

Answer: Edith **Wharton**

b) *The Red Badge of Courage* and "The Blue Hotel"

Answer: Stephen **Crane**

c) *Sister Carrie* and *An American Tragedy*

Answer: Theodore **Dreiser**

5. That old list of vitamin deficiency diseases isn't comprehensive, but it will help you get these FTPE:

a) While a Vitamin D shortage is more likely to cause osteomalacia in adults, it often causes this in children.

Answer: **rickets**

b) Alcoholism, as well as a niacin deficiency, can lead to this disease which causes mouth sores and chronic diarrhea.

Answer: **pellagra**

c) While a deficiency of riboflavin or folic acid can also lead to forms of anemia, pernicious anemia is most closely linked with a deficiency of this vitamin.

Answer: **B12** or **cyanocobalamin**

6. Name these philosophical –isms FTPE:

a) It holds that there are no universal values, leaving free choice as the essence of a person, but adds that it leads to a constant state of anxiety over one's responsibility. Proponents of this school included Sartre and Heidegger.

Answer: **existentialism**

b) A tenet of the 19th century utilitarians as well as the ancient Cyrenaics and Epicureans, it holds that pleasure is the highest or the only good in life and that the pursuit of pleasure and the avoidance of pain should be our first priority.

Answer: **hedonism**

c) Perhaps best advanced by Aquinas, this movement used highly analytical logical and linguistic methods to reconcile Christian dogma with the empiricism of Aristotle and show that faith and reason are separate but compatible.

Answer: **scholasticism**; accept **Thomism**, which is one subset of it.

7. Can you tell the Wilson brothers apart? Given a film, tell whether it features Owen Wilson, Luke Wilson, both or neither, five points each.
- Shanghai Noon
Answer: **Owen**
 - Charlie's Angels
Answer: **Luke**
 - House on Haunted Hill
Answer: **none** (Bridgitte Wilson starred in this; Owen Wilson was in "The Haunting")
 - Armageddon
Answer: **Owen**
 - Never Been Kissed
Answer: **none** (it does feature Owen and Luke's brother, Andrew)
 - The Royal Tenenbaums
Answer: **both**
8. Name these signers of The Declaration of Independence FTPE.
This Connecticut representative saved the Constitutional Convention by proposing a bicameral legislature to reconcile small states and large states.
Answer: **Roger Sherman**
This man's famous horse ride back to Philadelphia to break his delegation's tie and make Delaware the first state to declare independence is featured on that state's new quarter.
Answer: **Caesar Rodney**
Though he didn't get his wish of being the Commander-in-Chief of the Continental Army, at least this Massachusetts native got to be the first person to sign the Declaration.
Answer: **John Hancock**
9. Give the common names of these ring-shaped organic compounds, FTP each:
The simplest aromatic compound, it has the formula C₆H₆
A. **Benzene**
This class of compounds has a hydroxyl group attached to an aromatic ring.
A. **Phenol** (prompt on hydroxybenzene)
This compound has a methyl group replaced one of the hydrogens of benzene.
A. **Toluene** (prompt on methylbenzene)
10. FTPE name the dead white male European authors of the following:
- A Sentimental Education* and *Madame Bovary*
Answer: **Gustave Flaubert**
 - Wilhelm Meister's Apprenticeship* and *The Sorrows of Young Werther* [which is not about a caramel candy]
Answer: **Johann Wolfgang von Goethe** [pronounced Gerta, but accept reasonable attempts]
 - The Decameron*
Answer: **Giovanni Boccaccio**
11. Stock car racing has often had multiple drivers from the same family. Given current NASCAR numbers, give the last name shared by the brothers whose cars are thus designated. If you need their first names, you'll get only 5 pts.
- 10 pts.: #5 and #18
5 pts.: Terry and Bobby
Answer: **Labonte**
 - 10 pts.: #1 and #2
5 pts.: Kenny and Rusty
Answer: **Wallace**
 - 10 pts.: #22 and #99
5 pts.: Jeff and Ward
Answer: **Burton**

12. Given a description of a Thomas Hardy title character, name them, FTPE.

A. A young man from Marygreen who dreams of studying at Christminster but becomes a stone mason instead. He is raised by his Aunt Drusilla and marries Arabella Donn.

Answer: **Jude the Obscure** (accept **Jude Fawley**)

B. When the novel opens, Michael Henchard is a disconsolate twenty-one year old hay trusser who, in a drunken rage, sells his wife and daughter at a county fair. Eighteen years later, he has risen to become the most accomplished corn merchant in the title location.

Answer: **The Mayor of Casterbridge**

C. The protagonist is a beautiful, loyal young woman living with her impoverished family in the village of Marlott. She discovers she is a descendent of the powerful title family and goes to work for them.

Answer: **Tess of the D'Urbervilles** (also accept **Tess Durbeyfield**)

13. Earlier we mentioned nations with two capitals. Not to be outdone, South Africa has three – one each for the administrative, legislative, and judicial branches of its governments. For 5 points each name them, and for another 5 points each, tell which is which.

Answers: **Pretoria** (administrative), **Cape Town** (legislative), **Bloemfontein** (judicial)

14. Arrr, scurvy dogs, name these pirates FTPE.

Born Edward Teach, this pirate based in North Carolina buried silver bars on an island near New Hampshire which have never been found.

Answer: **Blackbeard**

His base was in Baratania Bay outside New Orleans, and he helped Andrew Jackson defeat the British in 1815.

Answer: **Jean Lafitte**

Perhaps America's most famous pirate, he obtained a privateer's license to capture Blackbeard, but when he failed, he just became a pirate himself, mostly preying on other pirates.

Answer: **William ("Captain") Kidd**

15. Answer the following about our friends, the tides, FTPE.

This type of tide produces the largest daily difference between high and low tide, resulting from the period when the sun and moon combine their effects.

Answer: **spring tide**

During the first and third quarters of the moon, the sun and moon are at right angles and offset each other, leading to this smallest tidal range.

Answer: **neap tide**

This bay records the highest tides on Earth.

Answer: **Bay of Fundy**

16. Answer the following questions about women from the Old Testament FTSNOP:

FTP, what was the name of Moses' older sister, who watched his tiny ark as it floated down the Nile?

Answer: **Miriam**

Give the names of Jacob's two wives FFP each.

Answer: **Rachel and Leah**

FTP, who was the daughter of Jethro whom Moses married?

Answer: **Zipporah**

17. Answer the following on thermal physics FTPE.

10) This hypothetical construct is a perfect absorber and a perfect emitter. A box with a tiny hole is a good approximation of one.

Answer: **blackbody**

10) This man adopted the quantum hypothesis, introducing his namesake constant, when he formulated the correct equation for the spectrum of a blackbody.

Answer: **Max Planck**

10) According to the Stefan-Boltzmann law, the total radiant energy emitted by a blackbody is proportional to what power of the blackbody temperature?

Answer: **4**

18. Thornton Wilder won three Pulitzers, convenient for those of us writing 3-part boni. FTPE name these winning works:

a) The 1927 Wilder novel that examines the lives of five people who die when a bridge collapses in 18th century Peru.

Answer: The **Bridge of San Luis Rey**

b) The 1938 play which uses simplicity in presenting small town America through the courtship of George Gibbs and Emily Webb in Grover's Corners' NH,

Answer: **Our Town**

c) The 1942 play in which the stories of Adam and Eve, Cain, Lilith, and others are all reexperienced in the suburban New Jersey home of George Antrobus.

Answer: The **Skin of Our Teeth**

19. Answer the following about the English Civil War FTPE.

Because of their closely cropped hair, the opposite of the flowing locks of the Cavaliers, this was the nickname given to the Parliamentarians.

Answer: **Roundheads**

This was the name given to Oliver Cromwell's army which won decisively at Naseby.

Answer: **New Model Army**

This was the title Cromwell took for himself as leader of England.

Answer: **Lord Protector**

20. Given some of the legendary jazz musicians, name the instrument that was their stock in trade FTPE:

a) "Jelly Roll" Morton, "Fats" Waller, Art Tatum, and Dave Brubeck

Answer: **piano**

b) Miles Davis, Louis Armstrong, and Dizzy Gillespie

Answer: **trumpet**

c) Ornette Coleman, Lester Young, Coleman Hawkins, and Charlie Parker

Answer: **saxophone** [do not accept "alto sax" or "tenor sax", as the list included two of each]

21. Give the sum of these infinite series FTPE

[10] $1 + (1/2) + (1/4) + (1/8) + \dots + (1/(2^n))$

Answer: 2

[10] $\sin 2\pi + \sin 4\pi + \sin 6\pi + \sin 8\pi + \dots + \sin(n\pi)$

Answer: 0

[10] $1 + (1/2) + (1/6) + (1/24) + (1/120) + \dots + (1/n!)$ read "1 divided by n factorial"

Answer: e