

1999 Terrapin Invitational Tournament

Questions by Maryland A (Dave Hamilton and Julie Singer, plus Jessie Stevens & Josh Allen)

Tossups

T1. This man designed an unsuccessful ship whose inside area was balanced on a teeter-totter in order to keep it level despite movement of the ocean. He had more luck with a method to produce bronze powder and gold paint, which enabled him to set up an iron-works in London. While working on a way to manufacture stronger gun-barrels in 1855, he patented a process to transform molten pig-iron by using air blown into a "converter." FTP, identify this British inventor who was knighted for his process used to manufacture steel.

Answer: Sir Henry BESSEMER

T2. The son of Hammedatha the Agagite, he himself had ten sons, but none lived more than ten months longer than he, for all ten were all slain on the same day, and in Jewish tradition, they are named in one breath -- no easy task. His wife Zeresh tried to warn him of his folly, but did he listen? No, he just went ahead and tried to hang his adversary on a fifty-cubit high gallows. In the end, Esther squealed and it was this man and not Mordechai who was hanged. FTP, name this villain of the Jewish holiday of Purim.

Answer: HAMAN

T3. This playwright supposedly died while swimming off the coast of Piraeus. An ancient epigram by Aristophanes of Byzantium wonders, "O [blank] and life, which of you then imitated the other?" Large parts of plays like The Shield and The Woman of Samos were discovered along with a complete play in 1959. FTP, identify this important figure in Athenian New Comedy, the author of the Dyskolos.

Answer: MENANDER

T4. Excommunicated by Alexander VI, this Hohenstaufen was crowned after the false rumors of Conradin's death. In the third canto of Dante's Purgatorio, he is described as a handsome blond with bloody wounds on his chest and brow; he received these mortal blows at Benevento in 1266. FTP, name this grandson of the empress Constance and predecessor of Charles of Anjou as king of Sicily, the natural son of Frederick II.

Answer: MANFRED (or Manfredi)

T5. Its sales peaked in 1987 at 48,800, dropped to only 3,100 in 1991, a year before its production ceased. In 1985, it came in third in the One Lap of America rally, but according to a test done by Changing Times magazine, it went from 0-60 in a rather impressive 17.6 seconds. FTP, identify this car whose GV model was priced at only \$3900, an East European dud that earned the nickname "Edsel of the Eighties."

Answer: YUGO

T6. This artist was accepted into the Ecole des Beaux-Arts in 1866, and studied there under Jean-Leon Gerome. After his return, his painted scenes of sailing, hunting, and rowing, like Max Schmitt in a Single Scull. His later portraiture, like The Pathetic Song, often featured people in deep introspection. FTP, identify this American artist whose most famous work now hangs in Jefferson Medical College, The Gross Clinic.

Answer: Thomas EAKINS

T7. This mathematician's basis theorem solved a principal problem in invariant theory. He proved the existence of $g(k)$ for each k in Waring's problem, and developed a paradox concerning infinite numbers that is often called the infinite hotel paradox. FTP, identify this mathematician who posed a list of 23 famous unsolved problems in 1900.

Answer: David HILBERT

T8. The stories in this collection include "The Lane Shall Enter First," and "The Enduring Chill." Published posthumously in 1965, its contains flawed characters whose apocalyptic moments of conflict and violence are presented in comic detachment. FTP, identify this collection containing "Greenleaf" and "The Comforts of Home," written by Flannery O'Connor.

Answer: EVERYTHING THAT RISES MUST CONVERGE

T9. Not repealed until 1877, its requirements included timber culture, construction, fencing, 5 years of residency, and well-digging. A quarter-section equaled 160 acres, and 80 million acres had been distributed by 1900. FTP name this Act, which became law on Jan. 1, 1863 and which allowed more than 600,000 settlers to receive land in the West.

Answer: _HOMESTEAD_ Act

T10. Born in 1954 in Mississippi, he once scored 46 points in a game while playing for Jackson State. After his playing career ended, he went on to own a power equipment company and co-own a CART racing. But he is best known for on-field accomplishments such as two MVP awards, nine Pro-Bowl appearances, and several records, including most yards rushing in a single game. These helped him earn the nickname "Sweetness." FTP, name this Chicago Bears great who died Monday at the age of 45 from liver disease, the NFL's all-time leading rusher.

Answer: Walter _PAYTON_

T11. Having speculated that the sun, moon, and stars were huge incandescent rocks, he was prosecuted for impiety and forced to withdraw to Lampsacus. He postulated that matter is infinitely divisible into particles and that the nous, or mind, is a formative agent in the creation of material objects. FTP name this philosopher born in Clazomenae, the teacher of Euripides and Pericles.

Answer: _ANAXAGORAS_

T12. Having a usually pink or gray color, this igneous rock has higher levels of silica than diorite, gabbro, and peridotite. An extremely coarse-grained version is called pegmatite, which may contain minerals of economic value. Also composed of quartz and potassium feldspar, it is intrusive in origin, and extremely abundant. FTP, identify this common felsic rock that is part of a nickname for New Hampshire.

Answer: _GRANITE_

T13. Born with the first name Apollo, he worked as a laborer in Kenya before becoming his own nation's first prime minister upon its independence in 1962. Opposed by King Mutesa II, he mounted a coup in 1966 and ultimately took refuge in Zambia after he was ousted by Basilio Okello in 1985. FTP name this founder of the UPC, re-elected president of Uganda in 1980 after having been deposed by Idi Amin.

Answer: Milton _OBOTE_

T14. This first name of the title character of this novel is Theodore. His father died by spontaneous combustion, seemingly because he violated a vow to God. Theodore assumes that a ventriloquist's words are supernatural in origin, and is insanely driven by the voices to murder his wife and children before committing suicide. FTP, identify this 1798 Gothic novel by Charles Brockden Brown.

Answer: _WIELAND_, or the Transformation

T15. When challenged by a friend's suggestion that he could even write music about a bicycle pump, he wrote _Free Air_ and the _Theme and Variations on Noises from a Garage_. In 1909, he joined the Los Angeles Symphony Orchestra as a violist, and later caught the attention of Paul Whiteman, whose orchestra he joined. During this time, he orchestrated Gershwin's _Rhapsody in Blue_, and premiered his best-known work, derived from his early days touring the desert and mountain country as an itinerant pianist. FTP, identify this composer of the _Mississippi Suite_, _Niagara Falls Suite_, and _Grand Canyon Suite_.

Answer: Ferde _GROFE_ [Grow-fay] (or Ferdinand Rudolph von _Grove_)

T16. When an infant, this man became emperor upon the death of his father, Romanus II, and had the generals Nicephorus Phocas and John Tzimiskes as regents. His early reign saw a revolt by Bardas Phocas, but an alliance with Vladimir of Kiev secured his position. His other conflicts came with another country led by Tsar Samuel, who sacked Adrianople in 1003. FTP, identify this Byzantine emperor, whose great victory at Balathista in 1014 helped earn him the nickname "Bulgar-Slayer."

Answer: _BASIL II_ (or _Basil Bulgaroktonos_ or _Basil the Bulgar-Slayer_ if given early)

T17. Based on a Heinrich Mann novel, this movie was directed in 1930 by Josef von Sternberg, and remade in 1959. In it, the cabaret dancer Lola-Lola sings "Falling in Love Again," and wins the obsession of Professor Immanuel Rath, played by Emil Janning. She ruins his life, making him lose sleep and his job, and leaves him in the end. FTP, name this German film which introduced Marlene Dietrich to the world.

Answer: "The _BLUE ANGEL_" (or "Der _Blaue Engel_")

T18. Class Pycnogonida of this phylum contains only a small group of marine species. The small classes Pauropoda and Symphyla are in subphylum Uniramia, while subphylum Pentastomida contains only one class. Class Cirripedia contains the barnacles, and Chilopoda has the millipedes. FTP, identify this phylum which also includes grasshoppers, scorpions, crabs, and spiders.

Answer: _ARTHROPODA_

T19. Prior to 1928, the region's only real value was the tannin extracted from its quebrachos and the meager grazing it provided for cattle. Ruled de facto by its Guarani inhabitants, this neglected region was finally noticed by its sovereign nation when oil was discovered in the foothills of the Andes. Despite the efforts of the League of Nations, full-blown hostilities continued until the 1935 cease-fire. FTP name this arid region, subject of a long-standing dispute between Bolivia and Paraguay.

Answer: _GRAN CHACO_

T20. This playwright wrote a translation of the first book of Lucan's *Pharsalia* and of Ovid's *Amores*. His *Massacre at Paris* was written after the assassination of Henri III of France, and Thomas Nashe is thought to have finished his *Tragedy of Dido*. FTP, identify this man killed by Ingram Frizer, the author of *Edward II*, *Tamburlaine the Great*, and *The Jew of Malta*.

Answer: Christopher _MARLOWE_

T21. In one scene Harold Godwinson confers with Edward the Confessor. In the next, Harold and his men prepare for their sea voyage with a final prayer and meal. In another, their landing on the coast of France is met by the hostile Guy of Ponthieu. All of these scenes are depicted on, FTP, what famous work, most likely commissioned by Bishop Odo, half-brother of William the Conqueror, to commemorate the invasion of England in 1066?

Answer: _BAYEUX TAPESTRY_

T22. After studying chemistry and pharmacy, this man became chair of Inorganic Chemistry at the University of Paris in 1900. He had invented the electric-arc furnace eight years earlier; with this, he reduced the oxides of uranium and tungsten, and synthesized rubies. Considered the founder of high-temperature chemistry, FTP, identify this French chemist who was the also first to isolate fluorine, for which he received the 1906 Nobel Prize.

Answer: Ferdinand Frederic Henri _MOISSAN_

T23. Imprisoned by the Nazis in 1938, this author was allowed to emigrate to America through the help of friends like James Joyce. After working in his father's textile business, he studied mathematics and psychology, which influenced his works, including *The Unknown Quantity* and *The Spell*. FTP, identify this Austrian novelist of *The Sleepwalkers* and *The Death of Vergil*.

Answer: Hermann _BROCH_

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Bonuses (All worth 30 points)

B1. Identify these poems from lines FTP each, five if you need the author.

1. 10 points--"If they be two, they are two so/ As stiff twin compasses are two"

5 points--John Donne

Answer: A VALEDICTION: FORBIDDING MOURNING

2. 10 points--"No more; where ignorance is bliss, / 'Tis folly to be wise."

5 points--Thomas Gray

Answer: ODE ON A DISTANT PROSPECT OF ETON COLLEGE

3. 10 points--"Drink to me only with thine eyes/ And I will pledge with mine"

5 points--Ben Jonson

Answer: Song: TO CELIA

B2. For the stated number of points, name these mathematical objects.

1. For 5 points, discovered independently by Johann Listing, it is an object having only one side and one edge.

Answer: MOBIUS STRIP

2. FTP, named after its German formulator, this is a closed surface with only one side, and no interior. When cut lengthwise into two pieces, it generates two Mobius strips.

Answer: KLEIN BOTTLE

3. For 15 points, take a cube. Divide it into 27 equal smaller cubes. Remove the center cube and the center cubes from each face. Recursively repeat the process for each of the smaller cubes.

Answer: MENGER SPONGE

B3. Identify the following IMAX movies given descriptions FTP each.

1. Shot by 14 NASA astronauts in 3 shuttle missions in 1984, this film includes footage of launches, landings, space walks, and satellite capture and repair.

Answer: The DREAM IS ALIVE

2. Featuring shots at a depth of up to 12,500 ft, this film is perhaps less well known than a similarly titled one that starred Leonardo DiCaprio.

Answer: TITANICA

3. This film, released in October of 1999 was filmed 600 miles off the coast of Ecuador and takes its title from the island archipelago location where Darwin conducted his famous research.

Answer: GALAPAGOS

B4. Identify these early caliphs on a 10-5 basis.

1. 10 points--He engaged in the wars of the ridda to assert his authority over tribal chiefs.

5 points--This father of Ayesha was the first caliph.

Answer: ABU BAKR

2. 10 points--Chosen by members of Qutrash after the assassination of his predecessor, he was also murdered in 656.

5 points--This third caliph succeeded Umar.

Answer: UTMAN ibn Affan

3. 10 points--The last of the *Rashidan* or "rightly guided," he fought at the inconclusive battle of Siffin.

5 points--This cousin of Mohammed was married to the prophet's daughter Fatima.

Answer: ALI ibn Abi Talib

B5. FTP each, answer these questions about the works of composer Leos Janacek.

1. This 1925 opera, set in Prague, concerns a property dispute and the opera singer Emilia Marty, who is later revealed to have become immortal by an elixir given to her by her father.

Answer: The MAKROPULOS CASE (or Makropulos Affair)

2. The title character is pregnant from the soldier Steva, who refuses to marry her after her face is slashed by the jealous Laca. She forgives her stepmother, who has killed the baby, and she finally marries Laca.

Answer: JENUFA

3. Janacek's first string quartet shares its name with this composition by Beethoven.

Answer: KREUTZER SONATA

B6. Identify the authors of these Roman plays FTP each.

1. Pseudolus

Answer: Titus Maccius PLAUTUS

2. Phormio

Answer: TERENCE (or Publius Terentius Afer)

3. Troacles, Thyestes, and Medea

Answer: Lucius Annaeus SENECA

B7. Terms starting with "Epi-" from biology, TPE.

1. This is the outermost portion of the skin or body wall of an animal.

Answer: EPIDERMIS (do NOT accept epithelium)

2. This is the network of coiled tubules in the testes that store sperm and conduct them from the seminiferous tubules to the vas deferens.

Answer: EPIDIDYMUS

3. This is a specialized plant that grows on the surface of other plants, but does not parasitize them.

Answer: EPIPHYTE

B8. Identify the following about Stations of the Cross FTP each.

1. In the sixth station, this holy woman wipes the face of Jesus with a handkerchief.

Answer: VERONICA

2. Jesus, having been whipped and crowned with thorns, is condemned by Pilate in this station.

Answer: FIRST

3. In the fifth station, the executioners compel this man to help Jesus carry the cross.

Answer: SIMON of Cyrene

B9. FTP each identify these U.S vice presidents.

1. He stated that the vice-presidency was "hardly worth a pitcher of piss." A Vanderbilt dropout, he ungraciously opposed FDR's bid for a third term.

Answer: John Nance GARNER

2. Born in Lamar, Missouri, Thomas Pendergast got him a job as presiding judge in Jackson County from 1926 to 1934.

Answer: Harry S TRUMAN

3. Editor of an agricultural magazine from 1933 to 1940, he served as chairman of the Board of Economic Warfare and was denied a presidential nomination in 1948.

Answer: Henry WALLACE

B10. Identify these geographical features of Namibia for the stated number of points.

1. For 5 points, name its capital.

Answer: WINDHOEK

2. For 5 points, the western edge of this desert stretches into the country.

Answer: KALAHARI Desert

3. FTP, this 300 mile long panhandle in northeast Namibia allows access to the Zambezi River.

Answer: CAPRIVI STRIP

4. FTP, this city, the chief port of Namibia, was relinquished by South Africa in 1994.

Answer: WALVIS BAY

B11. 30-20-10 Identify the author from works.

30) Love in the Ruins: The Adventures of a Bad Catholic at a Time Near the End of the World (1971) and The Second Coming (1980)

20) The Thanatos Syndrome and The Message in the Bottle

10) The Moviegoer

Answer: Walker PERCY

B12. Name these operators used in the C computer language FTP each.

1. The indirection operator is this symbol, which is also used in C as a more familiar basic mathematical operator.

Answer: _ASTERISK_

2. This operator can be used to increase the value of a variable by 1, which is used in the name of successor to C developed by Bjarne Stroustrup.

Answer: _DOUBLE PLUS_ (or _increment_ operator)

3. This operator, most often used in "for" statements, separates two expressions. The first expression is evaluated, and the result is discarded; then, the second one is evaluated, and its result is returned. Its symbol is also commonly seen in everyday literature.

Answer: _COMMA_ operator

B13. This question was written on October 19, a birthday shared by some big names in Hollywood right now. Unfortunately, Chris Kattan isn't that big in Hollywood, otherwise he would have been included. Identify them FTP each.

1. Born in 1969, this member of the South Park duo does the voices for Stan, Cartman, Mr. Garrison, and other characters. He also played Joe Cooper in BASEketball.

Answer: Trey _PARKER_

2. Born in 1945, this man first won critical acclaim for his supporting role in "The World According to Garp." More recently, he has won three Emmys in four years on the same show.

Answer: John _LITHGOW_

3. Born in 1966, he played the clown George Costanza pushed out of the way to get away from a fire, and never got to be Monica Geller's husband or the Ultimate Fighting Champion. He did play Rocky Marciano, however, and proved he was "money, baby" in 1996.

Answer: Jon _FAVREAU_

B14. FTP each answer these questions about the Chou dynasty.

1. The longest-lasting Chinese dynasty, it was founded circa 1122 BC and lasted until this year.

Answer: _221 BC_ (or BCE)

2. This legendary king, father of Wu, was the dynasty's founder.

Answer: King _WEN_

3. Literary works of the early Chou period include the books of changes, writings, songs, annals, and rituals, collectively known in English by what name?

Answer: the _Five Classics_

B15. Identify these regional American authors from works on a 10-5 basis.

1. 10 points-- _South Moon Under_

5 points-- _Cross Creek_ and _The Yearling_

Answer: Marjorie Kinnan _RAWLINGS_

2. 10 points-- _Deephaven_

5 points-- _The Country of the Pointed Firs_

Answer: Sarah Orne _JEWETT_

3. 10 points-- _Dance of the Happy Shades_ and _Who Do You Think You Are?_

5 points-- _The Beggar Maid_ and _The Lives of Girls and Women_

Answer: Alice _MUNRO_

B16. Identify the pair of architects who collaborated on the following works, five points for each person.

1. Hagia Sofia

Answers: _ANTHEMIUS_ of Tralles and _ISIDORUS_ of Miletus

2. Houses of Parliament, London

Answers: Charles _BARRY_ and A. N. Welby _PUGIN_

3. Centre Pompidou

Answers: Richard _ROGERS_ and Renzo _PIANO_

B17. Several women in Greek mythology were named Merope. Answer the following about two of them FTP each.

1. One Merope was wife to this king of Corinth, the foster-father of Oedipus.

Answer: POLYBUS

2. Another Merope was the wife of this founder of Corinth.

Answer: SISYPHUS

3. Sisyphus' wife was a member of this group, which also included the mother of Hermes and the mother of Dardanus.

Answer: PLEIADES (Moderator's note: the other two mentioned in the question are Maia and Electra, if anyone cares)

B18. Identify these comsological objects FTP each.

1. In 1784, the deaf-mute astronomer John Goodricke discovered what class of stellar objects when he saw a star that varied regularly in magnitude over a period of 5 days?

Answer: delta CEPHEID variables

2. In 1912, an American astronomer discovered what law, which uses the properties of cepheid variables to determine distance to faraway objects?

Answer: PERIOD-LUMINOSITY law

3. For a final ten points, name the astronomer who discovered the period-luminosity law of cepheid variables.

Answer: Henrietta LEAVITT

B19. For the stated number of points identify these kings belonging to the same dynasty.

1. FTP, supposedly the son of Chlodio's wife and Quinotaur the sea monster, he gave his name to the Frankish dynasty which held power until 751.

Answer: MEROVIS

2. For 5 points, named king in 481, he changed the Frankish emblem from black frogs to fleurs de lys after his wife Clotilda converted him to Christianity.

Answer: CLOVIS I

3. For 15 points, an ally and blood relation of Clovis, he was king at Cambrai, but was defeated by Clovis and captured with his brother Ricchar and executed at Le Mans in 486.

Answer: RAGNACHAR

B20. Identify the authors of the following epics on a 5-10-15 basis.

1. For 5 points, the Iliad.

Answer: HOMER

2. FTP, the Lusiads.

Answer: Luis Vaz de CAMOES (or Camoens)

3. For 15 points, the Columbiad.

Answer: Joel BARLOW

B21. For the stated number of points, identify these things about scientific rules.

1. For 5 points, this rule, posited by Gilbert Lewis, states that an atom or ion will attempt to form the most stable configuration of the valence electron shell through covalence or electrovalence. Many compounds, like NO and SF₆, do not follow this rule, however.

Answer: OCTET rule (or Lewis-Langmuir theorem)

2. FTP, this biochemist developed a series of rules generalizing the relationship among the various components of DNA, including that the ratio of purines to pyrimidenes is approximately 1.

Answer: Erwin CHARGAFF

3. For 15 points, this chemical rule that relates the vapor pressures of similar substances at different temperatures states that a straight line is obtained when the plotting the temperatures at which two similar liquids exert the same vapor pressure.

Answer: DURHING's rule

B22. 30-20-10 Identify the artist from works.

30) San Andrea della Quirinale, and the tomb of pope Alexander VII

20) Some of his most famous works are in the interior of the Cornaro Chapel of Santa Maria della Vittoria.

10) One of these works is the Ecstasy of St. Theresa group.

Answer: Gianlorenzo BERNINI