

Technophobia 4: Massive Quizbowl Overdose Caltech Packet Full of Posies: Tossups

1. They were a late species of dromaeosaur, similar to *Deinonychus* but not as big, only six feet long and weighing maybe one hundred pounds. They probably had feathers and must have had a high metabolism, since they were bipedal but agile enough to kill prey with the large talons on their feet. For 10 points--identify these "speedy plunderers" who were smaller and less scary than they appear in the movies.

answer: velociraptors

2. In the century after its publication, it averaged an edition a year and was translated into over thirty languages. The underlining in surviving copies suggests that readers paid more attention to the jokes and instructions on how to ride and dance with elegance than the conversations of Duchess Elizabeth of Gonzaga and her lieutenant Emilia, which dealt with philosophical questions of the necessity of noble birth and the role of warfare in the life of the well-bred Italian. For 10 points--name this set of instructions on good behaviour and courtly love written in 1513 by Baldassare Castiglione.

answer: *The Book of the Courtier* or *Il cortegiano*

3. She is not Joycelyn Elders, but she has advocated teaching children about masturbation as a more realistic safe-sex alternative than abstinence in her best-seller *Promiscuities*. Stances such as these have been controversial since she has reportedly been paid \$15,000 per month by the Gore campaign for political strategy advice on how to appeal to women voters, including how to make him be perceived as an "alpha male." For 10 points--name this prominent feminist, author of *The Beauty Myth*.

answer: Naomi Wolf

4. They are like humans in that they have bodily needs, are mortal, can do good or evil, and will eventually face salvation or damnation by Allah. They were thought to inspire poets, and Muhammed originally feared that his revelations were due to them. Christina Aguilera claims to be one in a hit song. For 10 points--identify these supernatural beings beneath angels and devils in Islamic mythology.

answer: jinni or jinn (accept ifrit before "Christina")

5. Its lobby features walls of Moroccan red marble, elevator doors inlaid with Japanese ash, and a ceiling covered with an Edward Trumbull mural entitled "Energy, Result, Workmanship and Transportation." Its seven-story pinnacle was assembled inside the building and, at the last minute, jockeyed into position, thwarting its competitors in the contest to become the world's tallest building. For 10 points--name this Art Deco masterpiece of William Van Alen, a 1,084-foot New York landmark notable for its gargoyles made of radiator caps.

answer: Chrysler Building

6. Despite saying such things as "Since God has given us the Papacy, let us enjoy it," and "What profit has not that fable of Christ brought us," he was considered more pious than his Borgia predecessors. He formed the League of Mechlin to oppose France. A lavish supporter of the arts, he re-affirmed the indulgences which had been authorized by Julius II to finance the construction of St. Peter's, but these

indulgences were not popular in northern Europe. For 10 points--name this pope who was driven to excommunicate Martin Luther.

answer: Leo X or Giovanni de Medici

7. It was advertised with the tagline, "There is no future without it." Ruby Rhod couldn't figure out if he was more like Prince or Arsenio Hall, and Zorg was dumb enough to get blown up by his own bomb. It's a good thing Plavalaguna had those stones inside her, or everyone on Earth would have been crushed by a huge fireball of pure evil. These plot elements appear in--for 10 points--what 1997 Luc Besson movie starring Milla Jovovich and Bruce Willis?

answer : The Fifth Element

8. His greatest memorial is his mortuary temple at Abydos, and his tomb is the finest in the Valley of the Kings. During his reign, the great hypostyle hall at Karnak was completed, and many public works were restored after the troubled years of the 18th Dynasty. He reclaimed Palestine and parts of Syria for the Egyptian empire and pushed the Hittites under Muwatallis back to the Orontes River. For 10 points--identify this king of the 19th Dynasty, the son of Ramses I and the father of Ramses II.

answer: Seti I

9. His Bathroom had seamless germ-free surfaces, a mirror which didn't steam up, a "Fog Gun" vapor shower that only required one cup of water, and a toilet which neatly shrink-wrapped excrement for composting. His House was heated and cooled by natural means, had downdraft ventilation to reduce the need for vacuuming and dusting, and had rotating closets to bring you your clothes. His Car got 30 miles to the gallon, went 120 miles an hour, and could do a 180 degree turn in its own length. For 10 points--what inventor of the Dymaxion House, Car, and Bathroom also invented the geodesic dome?

answer: R(ichard) Buckminster Fuller

10. The name may have been derived from the Spanish for "flat country." Formed by the confluence of the Tugaloo and Seneca rivers, it constitutes the boundary between Georgia and South Carolina as it flows southeastward past Augusta and its namesake city, which was the objective of Sherman's march to the sea. For 10 points, give the name of this river and colonial capital of Georgia, which has nothing to do with a terrain characterized by an open tree canopy above a hot, dry grassland.

answer: Savannah

11. His last words were, "Oh dear, I think I'm becoming a god." Milestones on the way to immortality included his proconsulship in Africa, where he was so miserly that the people pelted him with turnips, and his successful military campaign in Judaea, which was interrupted by the death of Nero. For 10 points--identify this Roman general who, after the brief reigns of Galba, Otho, and Vitellius, ended a civil war by becoming emperor and founding the Flavian dynasty.

answer: Vespasian

12. Dedicated to the Biblical command of Exodus 22:18, it was first published in 1486 by Johann Sprenger and Heinrich Kraemer, and it would go through 28 editions over the next century. Sprenger and Kraemer

had received a papal bull from Innocent VIII two years earlier, which gave the book an aura of papal authority as it advocated the use of torture in securing confessions. For 10 points--identify this handbook on how to hunt witches.

answer: Malleus maleficarum or The Witches' Hammer

13. Their first recording was in the Virtual Earth sound studio around February, 1977, and their first live performance was in Paris on May 28, 1977. They only recorded one album, which contains the songs "Visions of the Night," "New World Blues," and "Lady of Delight." The band that followed them reworked their song "Every Little Thing She Does is Magic" and made it famous. For 10 points--identify this rock group, the precursor to The Police, which also shares its name with a highly radioactive isotope of element 38 which has a 28-year half-life and is the product of nuclear fallout.

answer: Strontium-90

14. "When at the first I took my pen in hand/ Thus for to write, I did not understand/ That I at all should make a little book/ In such a mode: nay I had undertook/ To make another, which when almost done,/ Before I was aware, I this begun." begins the author's apology for this book. The story proper begins, "As I walked through the wilderness of this world, I lighted on a certain place where there was a den (the gaol), and I laid me down in that place to sleep: and as I slept, I dreamed a dream." For 10 points--name this 1678 book about the adventures of Christian, written by John Bunyan.

answer: Pilgrim's Progress

15. He was not Jesus, but he was murdered on an Easter Friday. He was not the Archangel Michael, but the army that he commanded was described as "the glory of the coming of the Lord." He was not Moses, but he is famous for delivering a people from bondage. He was not the patriarch Abraham, but you might say that he was *a* patriarch Abraham. He still was not Jesus, but he is well-known for saying that "a house divided against itself cannot stand." For 10 points--identify this sixteenth President of the United States.

answer: Abraham Lincoln

16. Its creators admitted that their intent was to design a product for a company that would be bought out quickly. Internet users are now starting to auction off their numbers on eBay and attracting bids if the numbers are small enough. The numbers identify users of this service that allows instant communication through the internet via a protocol first created by the Mirabilis company. The UINs in question are--for 10 points--used by what instant-messaging program now owned by America Online?

answer: ICQ

17. In his 1903 tone poem *Symphonia Domestica*, a huge orchestra describes 24 hours in the life of his family, including bathing the baby, quarreling, and having make-up sex. He and his wife appear again as the protagonists of the 1918 opera *Die Frau ohne Schatten*, a bizarre Wagnerian version of Mozart's *The Magic Flute*. For 10 points--name this composer more famous for the opera *Der Rosenkavalier* and the tone poem *Also Sprach Zarathustra*.

answer: Richard Georg Strauss

18. His grandnephew, who was named for him, had the last name Pickard and developed the crystal detector radio receiver, a point-contact rectifier which was the forerunner of the transistor. He himself wrote antislavery pamphlets for William Lloyd Garrison's *Liberator*, as well as church hymns which are still sung today, but he is better known for sentimental poetry about nature and incidents in rural life. For 10 points--name this Quaker poet, influenced by Robert Burns, whose works include "Maud Muller" and "Snowbound."

answer: John Greenleaf Whittier

[note: his grandnephew was named Greenleaf Whittier Pickard, and probably got beat up a lot at school.]

19. The Interrotron, which allows persons to look directly into the camera while maintaining eye contact with the interviewer, was used to speak to mole-rat specialist Ray Mendez, lion-tamer Dave Hoover, topiary gardener George Mendonca, and designer of bug-like robots Rodney Brooks. For 10 points--these men appear in what 1997 Errol Morris documentary, whose title comes from a paper by Brooks subtitled "A Robot Invasion of the Solar System"?

answer: Fast, Cheap, and Out of Control

20. The Wiedemann-Franz law shows that, for this class of materials, the ratio of the thermal conductivity to the electrical conductivity is directly proportional to the temperature. The constant of proportionality, called the Lorenz number, is independent of the particular material, a result which supports the theory of the free electron gas used to describe the properties of--for 10 points--which materials which include rubidium, cesium and sodium and are useful for body piercings and chain link fences?

answer: metals

21. Her death at the age of 34 tormented her father, who had found great comfort in their correspondence, until his own death nine years later. The daughter of Maria Gamba, she was considered unfit for marriage because of her illegitimacy and was placed into a convent. There she took vows as Sister Maria Celeste, a name she chose out of respect for her father's fascination with the stars. For 10 points--identify this Venetian nun, whose 124 letters to her father, the discoverer of four moons of Jupiter, form the basis of a 1999 book by Dava Sobel.

answer: Galileo's Daughter (accept Virginia)

22. Called *hamestagan* by Zoroastrians, it is inhabited by the faithful who have fallen off the Bridge of the Requiter and are doomed to suffer extreme heat and cold. In *Laetentur Caeli*, Pope Eugenius IV authoritatively defined it according to Second Maccabees 12:45, which states, "...If he was looking to the splendid reward laid up for those who fall asleep in godliness, it was a holy and pious thought. Therefore he made atonement for the dead, that they might be delivered from their sin." For 10 points--name this haven for souls which can be purified by indulgences bought on their behalf by the faithful on earth.

answer: purgatory (do not accept: limbo)

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Caltech Packet Full of Posies: Bonuses

1. Prepare an infusion of white wine, vinegar, tarragon, and shallots. Reduce it by boiling, add egg yolks, and heat. Beat in melted butter until the desired texture is obtained. For 10 points each--

A. This is the recipe for what classic French sauce, whose colloidal properties were investigated in a 1977 paper published in *Nature*?

answer: béarnaise sauce

B. The addition of butter turns the sauce into this type of viscous colloidal mixture, in which the fat molecules do not mix evenly with the continuous wine mixture and are dispersed throughout it.

answer: emulsion

C. Along with cholesterol and livetin, the egg yolks in the sauce contain these common emulsifying agents, phosphoglycerides which help to keep the emulsion from separating on the way to the table.

answer: lecithins

2. Identify these military forces or battles from the commanding officer for 10 points, or from a more famous subordinate officer for 5.

A. (10) The commanding officer of this military unit was Captain Leonard Wood.

(5) Wood recruited this unit with his friend, Theodore Roosevelt.

answer: 1st U.S. Volunteer Cavalry or Rough Riders

B. (10) The commander in chief of this army was Thomas Fairfax.

(5) Even though members of Parliament were supposedly not allowed to hold commands or offices in this army, Fairfax insisted that Oliver Cromwell be made second-in-command.

answer: New Model Army

C. (10) The Greek forces at this battle were commanded by Eurybiades.

(5) Although Eurybiades was technically in charge because most of the Greeks wanted a Spartan commander, it was the Athenian Themistocles that received most of the credit for this tremendous victory.

answer: Salamis

3. The beautiful and impetuous Bathsheba Everdene inherits a farm and a great deal of money at a young age, and creates quite a stir in the county of Wessex.

A. For 5 points each, give the author and title of this work, its author's first successful novel.

answer: Thomas Hardy and Far From the Madding Crowd

B. Bathsheba is pursued by three men: the rakish bastard soldier, the wealthy, respected gentleman farmer, and her sturdy, dependable, loyal shepherd and bailey. For 5 points for one, 10 for two, and 20 for all three, name these three suitors.

answer: Sergeant Francis (Frank) Troy, Mr. William Boldwood, and Gabriel Oak (accept either name)

4.

Identify these cities of Andalusía, for 10 points each.

A. Located on the Guadalquivir river, this largest city of Andalusía and fourth largest city of Spain is the setting for *Carmen* and *The Marriage of Figaro*.

answer: Seville or Sevilla

B. Probably founded by the Carthaginians, it was the capital of the Roman province of Baetica and of the Umayyad prince Abd ar-Rahman. Located on the Guadalquivir river about 75 miles northeast of Seville, during the 10th century it was the largest and perhaps the most cultured city of Europe.

answer: Cordova or Córdoba

C. Founded by the Phoenicians in the 12th century B.C., this city on the Costa del Sol shares its name with a variety of heavy, sweet, red wines, including certain kosher wines served at Jewish celebrations.

answer: Málaga

5. Answer the following about Los Angeles water politics for 10 points per answer.

A. As the rapidly growing city of Los Angeles exhausted its local water resources, between 1911 and 1923 the water superintendent audaciously purchased 95% of the water rights to a distant river, then constructed a 233-mile-long aqueduct across the Mojave Desert to divert the water to Los Angeles. Tough luck, ranchers! Name the superintendent and the river.

answer: William Mulholland, Owens River

B. A highly fictionalized account of the Owens Valley water project appeared in this 1974 movie which won the Oscar for best screenplay.

answer: Chinatown

6. Given a pop music verse which Learjet could use in a commercial jingle, identify the song and the artist or group, 5 points per correct answer.

A. "And then she chartered a Lear

When she heard her career was in danger
And gave the pilot somethin' extra for a perfect ride"

answer: That's Not Her Style by Billy Joel

B. "I'm in the hi-fidelity first class travelling set
And I think I need a Learjet"

answer: Money by Pink Floyd

C. "Well I hear you went up to Saratoga and your horse naturally won
Then you flew your Learjet up to Nova Scotia
To see the total eclipse of the sun"

answer: You're So Vain by Carly Simon

7.

Are you scatterbrained? Identify these types of scattering for 10 points each.

A. This is the dispersion of electromagnetic radiation by particles that have a diameter less than approximately one fifth the wavelength of the radiation. The intensity of the scattered light is related to that of the incident light by the inverse fourth power of the wavelength, which accounts for the blue color of the sky.

answer: Rayleigh scattering

B. If the size of the scattering particles approaches or exceeds the wavelength of the light, this complex theory explains why white light is scattered at the largest sizes, such as in fog and clouds.

answer: Mie (pron. "me") scattering

C. When applied to crystalline materials, this effect refers to inelastic scattering of light from a material, which changes the wavelength of the incident light as well as resulting in the creation of a phonon or magnon in the material.

answer: Raman scattering or Raman effect

8.

In addition to confusing Slovenia with Slovakia, he has called the Greeks "Grecians," the Kosovars "Kosovarians," and the East Timorese the "East Timorians."

A. First, for 5 points, name this man.

answer: George W. Bush or Dubya

Adding to the perception that he is a foreign policy lightweight, Bush flubbed a reporter's pop quiz and was unable to identify the leaders of four hotspots around the globe. Show that you can do better by naming these political leaders.

B. (5) the prime minister of India

answer: Atal Behari Vajpayee

C. (10) the president of Taiwan

answer: Lee Teng-Hui (prompt on "Lee." If the team can't give the full name, give them 5 points, since that is all Bush could come up with, either.)

D. (10) the president of Chechnya

answer: Aslan Mashkhadov

9. Identify these related artists on a 15-10 basis.

A. (15) This photographer, a pioneer of the solarization technique, dabbled in film and sculpture. His works include 1923's metronome with a photograph of an eye fixed to the pendulum, entitled *Object to be Destroyed*, which it was by anti-Dada rioters in 1957.

(10) Born Emanuel Rabinovitch, he discovered how to make cameraless pictures, called, appropriately, rayographs, by placing objects on light-sensitive paper and then developing it.

answer: Man Ray (accept: Emanuel Rabinovitch on 15-point clue)

B. (15) His first sculpture, now lost, was 1913's *Bicycle Wheel*, which consisted of a wheel mounted on the seat of a stool. His brother, Jacques Villon, was also an artist.

(10) He completed few paintings, but this sculptor of ready-mades like *Fountain*, which is a urinal, is most famous for his 1912 canvas *Nude Descending a Staircase*.

answer: Marcel Duchamp

10.

For 10 points each--identify these famous Kurds.

A. This Kurdish separatist leader was captured in Kenya by Turkish authorities, convicted of treason, and sentenced to hang.

answer: Abdullah Ocalan

B. This founder of the Ayyuvid dynasty captured Jerusalem from the Franks in 1187.

answer: Saladin

C. This Kurdish military leader was president of the short-lived Kurdish Mahabad Republic, which had been established with Soviet aid in northwestern Iran. He later fought a guerilla war against Iraq, but his forces were eventually crushed and he sought asylum in the U.S.

answer: Mustafa al-Barzani

11. Identify these birds for 10 points each.

A. Most birds rely on vision to find food and have a poor sense of smell, but this American bird of species *Cathartes aura* is an exception. It subsists on carrion and it can smell a small piece of rotten meat over half a mile away.

answer: turkey vulture or turkey buzzard

B. There are estimated to be more than 100 billion of this small sparrow-like African bird. Sometimes called "locust birds," the enormous flocks of these birds will consume farmers' crops with devastating effect. Attempts to control their population with poisons, napalm, pathogens, and dynamite have not been very successful.

answer: red-billed quelea (also accept: dioch)

C. This bird migrates over longer distances than any other creature on Earth. It breeds north of the Arctic Circle, then migrates to the Antarctic pack ice 11,000 miles to the south.

answer: Arctic tern

12. Identify these measurements used to describe the volatility of a stock investment, for 15 points each:

A. This variable describes the sensitivity of the stock price to movements in the overall market index. A value of 0.7 means the stock price is likely to change by 70% of the change up or down in the overall market. A value of 1.3 means the stock tends to move up or down 30% more than the index.

answer: beta

B. Named after a Stanford economist, this ratio is just the expected or measured differential return of the investment over some time period, divided by the expected or measured standard deviation of the return.

answer: Sharpe ratio

13. Is it Ben? Is it Noel? Is it Ben? Is it Noel? Right now, thank heavens, it's neither one. Identify these other romantic prospects of Felicity Porter for 10 points each:

A. While Noel was about to cheat on her with Hannah, Felicity lost her virginity to this adorable art student.

answer: Eli

B. Felicity almost married this gay guy, her boss at Dean & DeLuca, so he wouldn't be deported back to Spain and separated from his one true love, Samuel.

answer: Javier

C. Felicity's new boyfriend, he's also the son of her Drawing 10 professor. He finally kissed her in last week's episode even though she had mono.

answer: David Sherman

14. Identify the entity 30/20/10/5.

30: When it says, "darkness was over the surface of the deep" at the beginning of Genesis, the Hebrew word for "the deep" is derived from her name. She is the personification of salt water.

20: Her consort was Apsu, the personification of fresh water. After Apsu was killed, her new consort was Kingu, one of her sons.

10: The *Enuma elish* describes how Marduk killed her, cut her body in half, and used it to make the earth and the sky.

5: She was the mother of everything in Mesopotamian mythology, but in "Dungeons and Dragons" she was merely the ruler of evil dragons.

answer: Tiamat

15. Identify the following oft-confused features of everyone's favourite epic, *Beowulf*, for the stated number of points:

A. (5) The mead hall attacked by Grendel.

answer: Heorot

B. (5) The king of the Danes to which Heorot belongs.

answer: Hrothgar

C. (10) The king of the Geats to which Beowulf is a thane.

answer: Hygelac

D. (10) The trusty sword with which Beowulf slays Grendel's mother.

answer: Hrunting

16. For 10 points each--identify these authors who based collections of fables on those of Aesop:

A. This Frenchman's verse *Fables* were published in twelve books between 1668 and 1694.

answer: Jean de La Fontaine

B. This earliest known French woman poet was the author of hundreds of 12th century *lais*, as well as a collection of fables dedicated to Henry II of England and entitled *Ysopets*. (pron: EE-so-PAY).

answer: Marie de France

C. This Swiss Dominican's 1350 book of fables, entitled *The Precious Stone*, was, in 1461, the first book to be printed in the German language. His surname is also the nickname of Mike Seaver's dorky friend on *Growing Pains*, and can also refer to an uncomfortable condition.

answer: Ulrich Boner or Bonerius

17. Identify the terms from abstract algebra for 10 points each.

A. An element of a group G which can be written in the form " c a c -inverse" $[cac^{-1}]$ for some c in G is said to have what relation to a ?

answer: they are conjugate

B. If a subgroup K of a group G is fixed when G acts upon it by conjugation, then K is what sort of subgroup?

answer: normal

C. If the only normal subgroups of a group G are itself and the trivial group, G is known as what?

answer: simple

18. He landed at Lyme Regis, Dorset with 82 followers and quickly raised over 4,000 men to help him carry out a rebellion against the reigning monarch. For 10 points each, name:

A. This illegitimate son of Charles II who, on July 6, 1685, was defeated on the plain of Sedgemoor by troops lead by John Churchill, Duke of Marlborough.

answer: James Scott, Duke of Monmouth (accept either underlined name)

B. The king who was the target of the Duke of Monmouth's rebellion.

answer: James II

C. The brutal trials conducted after the rebellion by Jeffreys of Wem, which resulted in Monmouth's beheading and thousands of his followers hanged, fined, flogged, imprisoned or sent to Barbados.

answer: Bloody Assizes

19. Identify the following about Japanese poetry for 10 points each:

A. Ten points are yours if/ you can name the form in which/ this clue is written.

answer: haiku

B. This five-line, 31-syllable poem has historically been the basic form of Japanese poetry. It is synonymous with the term "waka," which more broadly denotes all Japanese poetry with classical forms.

answer: tanka

C. This linked verse form began as the composition of a single tanka by two people. A popular pastime in boring rural areas was to play "screw your neighbour" by making your part of the tanka incredibly difficult to complete intelligibly.

answer: renga

20. Identify these often-confused mountain ranges, for 10 points each.

A. This large mountain range extends almost 2000 miles from Newfoundland to central Alabama.

answer: Appalachian Mountains

B. This mountain range in northeastern New York, sometimes considered a part of the Appalachians, extends from the St. Lawrence River valley and Lake Champlain southward to the Mohawk River valley.

answer: Adirondack Mountains

C. Also a part of the Appalachians, this mountain range extends for more than 500 miles from north-central Pennsylvania south-southwestward to southwestern Virginia.

answer: Allegheny Mountains

21. Pencil and paper may or may not be needed.

A. For 10 points--ignoring leap years--how many minutes are in a year?

answer: 525,600

B. You didn't really need to do any calculation to figure out that 525,600 minutes are one way to measure a year. A song which begins the second act of a 1996 musical about starving artists in New York would have taught you this handy fact. For 10 points each--name the musical and the song.

answer: Rent, Seasons of Love

22.

He had a phenomenal 1999 season, winning 8 PGA tournaments, and four in a row at the end, capped off by a dramatic playoff victory in the World Golf Championship.

A. For 10 points, who is this #1 ranked golfer in the world, who earned \$6.6 million in prize money this year?

answer: Eldrick "Tiger" Woods

B. Woods' final victory of the season came at what golf course on Spain's Costa del Sol, the site of the 1997 Ryder Cup?

answer: Valderrama Golf Club

C. What Spanish golfer did Woods defeat in the playoff to win his eighth title in 1999?

answer: Miguel Angel Jiménez