

1997 Bruin Beach Party  
Tossups by Stanford

1

Although he was the Gerhard Gade professor of physics at Harvard, he contributed to the Berkeley introductory physics course by writing the second volume of the sequence, "Electricity and Magnetism." In 1952, he received the Nobel Prize in physics, together with Felix Bloch of Stanford, for their discovery of the Nuclear Magnetic Resonance. FTP, name this physicist who died on March 7, 1997.  
A: Edward Mills PURCELL

2

The author of this book claimed that it was an autobiography of the sort that "has never been attempted previously, nor will ever ever be repeated." In this autobiography, one can find descriptions of the author's theft and five illegitimate children, all of whom he placed in the orphanage, for their own good. FTP, name this autobiography of Jean-Jacques Rousseau, partially based on a work of Augustine by the same title.  
A: CONFESSIONS

3

This warrior was born in 1592 in Glenfinnan on the shores of Loch Shiel. Yet, he participated in the Battle of Culloden, the Battle of Waterloo, and the Mexican Revolution. FTP, name this man who can only die if you take his head, the Highlander.  
A: DUNCAN MACLEOD (prompt on Macleod; do not accept Connor Macleod or John Nash)

4

He was a native of Fairfield, Vermont, born in 1830. Graduating from Union College, he became a successful lawyer. He got his start in politics as a state administrator, and in 1871 was appointed Collector of Customs for the Port of New York, a job he lost in 1878. However, three years later he became vice-president. FTP, name this man, known as the most Victorian of US presidents.  
A: Chester Alan ARTHUR

5

It consists of the islands of Corisco, Elobey Grande, Elobey Chico and Biko, as well as Rio Muni, which is on the western coast of Africa. FAQTP, name this small country whose capital is Malabo.  
A: EQUATORIAL GUINEA

6

She is the current toast of the New York literary set because of her new novel. Her husband Colin is a literary editor. Her novel chronicles her incestuous affair with her father who left her as a young child and reappeared over 15 years later. FTP, name this author of "The Kiss."  
A: Kathleen HARRISON

7

He used to comb turpentine through his hair and he sold his first painting before the age of 10. By the end of his life, he was so famous that one could send letters to him with the address of Spain and a drawing of a mustache. FTP, name this creator of "Madonna of Port-Lligat" and "Persistence of Memory."  
A: Salvador DALI

8

He invented the quartet stand, improved the dumbwaiter, invented the swivel chair, and introduced Brussels sprouts, ice cream and waffles to the United States, as well as doing more conventional things like writing the Virginia Statute of Religious Freedom and designing the University of Virginia. FTP, identify this legendary American who died on July 4, 1826.

A: Thomas JEFFERSON

9

It debuted in 1886, after the composer's death, and is based on Megden's drama, "The Witch." This tone poem depicts the Black Mass, the appearance of Satan, and, finally, the scattering of evil spirits with the tolling of the village churchbell. FTP, name this piece, used as a theme for Batman and various horror movies, written by Modest Mussorgsky.

A: NIGHT ON BALD MOUNTAIN

10

This author's major themes were love and friendship, heroism and war. He wrote primarily long short stories or novelettes, including "White Steamship" and "A Day Which Lasts Above a Century." The short story collection "Povesti gor i stepei" or "Tales of Mountains and Steppes" in English, earned him a Lenin Prize in 1963. FTP, name this Kyrgyz author, who often translated his own works into Russian.

A: Chingiz AYTMATOV

11

In Greek legend, he was the son of Oileus, king of Locris. His short size was did not prevent him from being one of the greatest Greek heros at Troy, as well as one of the most arrogant. He almost got killed by his own allies for violating Priam's daughter Casandra on the altar of Athena. On the way home, he escaped a shipwreck only to be drowned by Poseidon for his excessiveboasting. FTP, name this hero.

A: AJAX the Lesser

12

This aromatic hydrocarbon differs from benzene in that one of the hydrogen atoms is replaced by a methyl group. It is a useful gasoline additive because of its anti-knock properties, and is often used as a solvent in pharmaceuticals and photographic processes. FTP, name this substance, which gained instantaneous fame from its derivative: TNT.

A: TOLUENE (do not accept "tri nitro toluene")

13

These large formations, usually composed of granite, cover irregular areas greater than 100 square kilometers. They generally constitute the core of great mountain ranges, such as the Rockies and the Sierra Nevada, and their composition is often similar to granodiorite. FTP, name these formations of igneous rocks.

A: BATHOLITHs

14

His name is slang for money, and he is a prodigious eater whose favorite food is pig's stomach. But now, his attention is being diverted away from his food and to his unpopular tax plan. FTP, name this politician who started his career in the state government in Rhineland-Palatinate and who has been chancellor of Germany since 1982.

A: Helmut KOHL

15

He was the son of King Dasaratha of Ayodha. With the help of Hanuman, the king of the monkeys, he manages to rescue his wife Sita and slay Ravan, the demon-king of Lanka, enabling the righteous to live in peace. FTP, name this heroic figure, an incarnation of Vishnu whose tale is told in a Sanskrit epic dating from the 3rd century BC.

A: RAMA

1 6

Although not an actor, he did appear in Woody Allen's "Zelig" as a psychoanalyst. A one-time prisoner at Dachau, he came to America in 1939 and five years later he became director of the Orthogenic School, an institution for disturbed children. His liberal policies seemed to produce good results, but these later led to controversy. FTP, name this Austrian-born psychologist who committed suicide in 1990.

A: Bruno BETTELHEIM

1 7

Wesley Mauch, Mr. Thompson, Hank Reardon, Ken Danegger, Ellis Wyatt and Dagny Taggart all ask the same question in this novel which describes the philosophy of its author. FTP, "Who is John Galt?" is the central question in what book, written by Russian-American author Ayn Rand?

A: ATLAS SHRUGGED (prompt on "Who is John Galt" before word "novel")

1 8

Kevin Loge, Kyle Sanden, Aaron Stauber, Miles Tarver, Quincy Lewis, Charles Thomas, Courtney James, John Thomas, Eric Harris, Sam Jacobson and Bobby Jackson are all members of this basketball team coached by Clem Haskins. FTP, name this Final Four team.

A: University of MINNESOTA or Golden GOPHERS

1 9

It was established as a Roman colony in the first century BC and was a republic for many years, although it eventually came under the control of a certain notorious family in the 14th century. From 1861 to 1875 it served as the capital of Italy. FTP, name this located 140 northwest of Rome on the Arno, the capital of Tuscany, which was ruled by the Medici family and achieved preeminence in art and learning during the Renaissance.

A: FLORENCE or FIRENZE

2 0

45 different people have held this position, and seven have died while holding it. Several went on to bigger and better things after leaving the position: some by choice, some by necessity. Only one has ever resigned, although the job is not very taxing. FTP, name this office, whose only official duty as designated by the Constitution is to preside over the Senate.

A: VICE PRESIDENT of the United States

2 1

During its reign, Chinese lands stretched from Burma to Korea and culture flourished. European colonies were established at Macao and Canton and missionaries such as Francis Xavier penetrated the country. FAQTP, name this dynasty which began its reign with the expulsion of the Mongols and ended with the establishment of the Manchu Ch'ing dynasty in 1644.

A: MING Dynasty

2 2

A recorder, a smoking jacket, an umbrella, a 12 foot long scarf and a package of jelly babies. All of these are characteristic of this person who was the star of the longest running dramatic show in TV history and who travels in a blue police call box. FTP, name this Time Lord played by among others Tom Baker.

A: DOCTOR WHO

2 3

His interest in the sciences was developed early and for a while he was active for a time in creating geologic surveys of Alsace and Lorraine. However, he eventually turned to his true love, chemistry, and demonstrated experimentally that oxygen gas in the air is involved in combustion, rusting, and respiration. FTP, who is this French chemist, who despite being known as the father of modern chemistry, was guillotined in the French Revolution?

A: Antoine LAVOISIER

2 4

Among the many anecdotes surrounding this Greek philosopher of the fourth century BC is the story of when Alexander the Great granted him any one wish, he replied: "Move! You are blocking the sun!" There is also his famous search for a man with a lantern among a large crowd in broad daylight. He advocated a life of self-sufficiency and moral excellency. FTP, name this student of Antisthenes and co-founder of the Cynics.

A: DIOGENES

2 5

The first European to explore it was John Hanning Speke, in 1858; it lies at an altitude of 3720 feet and is a source of the Nile River. FAQTP, name this lake, the second largest freshwater lake in the world, which lies mostly within Uganda and Tanzania.

A: Lake VICTORIA

2 6

This book, actually a collection of over a dozen linked stories is about the experiences of a platoon of soldiers, including Ted and Kiowa, in Vietnam. FTP, name this book written by Minnesota author Tim O'Brien.

A: The THINGS THEY CARRIED

1997 Bruin Beach Party  
Bonuses by Stanford

1

Answer the following about Maxwell's equations FTP each.

No magnetic monopoles have yet been found. That means that this function of the magnetic field,  $B$ , is always 0, which agrees with Maxwell's fourth equation.

A: DIVERGENCE ( $\text{div } B = 0$ )

According to Maxwell's first equation, This vector derivative of the electric field is proportional to the partial derivative of the magnetic field with respect to time.

A: CURL ( $\text{curl } E = -1/c \cdot (dB/dt)$ )

From Maxwell's equations, it can be shown that the speed of light squared is given by the product of the inverses of these two fundamental constants. Name them for 5 points each.

A: PERMITTIVITY (accept magnetic permittivity) and PERMEABILITY (accept dielectric constant of vacuum)

2

Name the Russian novel from a brief description of the finale:

For 5 points, the title character, after eloping with Count Vronsky, commits suicide by jumping under a moving train.

A: ANNA KARENINA

FTP, Roman Raskolnikov is sent to a labor camp in Siberia; Dunya Raskolnikova marries Razumikhin.

A: CRIME AND PUNISHMENT

For 15 points, the treasure hunt ends abruptly as the former owner of the diamonds, realizing that someone else already found them, slits Ostap Bender's throat with a dirty razor blade.

A: The TWELVE CHAIRS

3

This question will deal with some of the smallest states in Europe. On a 10-5 basis, you will have to name the state after a list of some of its most prominent landmarks.

10: Serravalle, Chiesanuova

5: San Giovanni, Monte Titano

A: SAN MARINO

10: Ethiopian College, Belvedere Palace.

5: Borgia Apartment, Sistine Chapel

A: VATICAN CITY

10: International Hydrographic Bureau, Exotic Gardens

5: La Condamine, Monte Carlo casino

A: MONACO

4

Acronyms have been popular in government for many, many years. Given an acronym in government, expand it for 15 points. These are kind of hard, so we'll give you three, although your maximum score is still 30 points.

DIA

A: DEFENSE INTELLIGENCE AGENCY

NOAA

A: NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION

ACHRE

A: ADVISORY COMMITTEE ON HUMAN RADIATION EXPERIMENTS

5

Name the president from clues on a 30-20-10 basis

30: He was the first to visit the New York Stock Exchange while in office 20: He was the First to speak at the Berlin Wall, and his name was not John 10: He once said "Trees cause more pollution than automobiles do."

A: Ronald Wilson REAGAN

6

Name the composer from works, 30-20-10. 30:

Gladiator

20: Washington Post, Semper Fidelis 10: Stars and Stripes Forever

A: John Philip SOUSA

7

Identify the Beat from works FTP each Dr. Sax;

Mexico City Blues

A: Jack KEROUAC

Nova Express; Dead Fingers

A: William s. BURROUGHS

Sunflower Sutra; A Supermarket in California

A: Allen GINSBERG

8

It is generally assumed that human intelligence is distributed according to a normal or Gaussian distribution. FTP each, identify the terms used to describe the 1st, 2nd and 3rd moments of a distribution such as that assumed for intelligence.

A: MEAN; VARIANCE or STANDARD DEVIATION; SKEW

9

Identify these sociologists from clues, 10 for one and 30 for both

His "Science of Morality" offended philosophers, his "Science of Religion" offended Catholics, and his appointment at the Sorbonne offended French conservatives. But what he is perhaps best remembered for is his landmark study of suicide.

A: Emile DURKHEIM

Often considered the father of sociology, he is best remembered for defining sociology as the study of "social statics" and "social dynamics." A: Auguste COMTE

10

history bonus

11

Identify these women FTP each

Name the first female medical school graduate in the U.S.

A: Elizabeth BLACKWELL

She is the current head of NOW.

A: Patricia IRELAND

Name these female muckraker who took on Standard Oil.

A: Ida TARBELL

12

Given the team, identify the big-league ballpark

For 5 points, Baltimore

A: CAMDEN YARDS



For 5 points, Pittsburgh  
A: THREE RIVERS Stadium  
FTP, Tampa Bay  
A: TROPICANA Dome  
FTP, Kansas City  
A: Ewing m. KAUFFMAN Stadium

13

Identify the following about engines.

For 5 points, name the engine which compresses fuel at a high enough pressure that it becomes hot enough to explode.

A: DIESEL

For 15 points, name the engine which uses a rotor instead of pistons to derive power from internal combustion.

A: WANKEL

FTP, name the ideal engine which pumps heat from a cool reservoir to a hot reservoir.

A: CARNOT

14

FTP each, identify the following pop music successes based upon their descriptions.

He broke Slim Whitman's 1955 record for most weeks on the UK singles chart in 1991 with a song he wrote for the "Robin Hood" soundtrack.

A: Bryan ADAMS

He played with the Mynah Birds with Rick James of "Sperfreak" fame. Later he moved to L.A. and formed a band with another animal inspired name: Buffalo Springfield.

A: Neil YOUNG

This singer beat out Bryan Adams for the "Most Likely to Succeed" award at the Japanese Music Festival. Indeed, she has won several Grammys in recent years and has been much acclaimed despite using Meatloaf's songwriter.

A: CELINE DION (prompt if partial)

15

30-20-10, name the author from works.

30: The Narrow Corner

20: The Bishop's Frock

10: The Razor's Edge

A: w. Somerset MAUGHAM

16

There was recently a parliamentary election in Russia. FTP each answer these questions.

The election was held for this man's former seat. He gave it up to become Head of the National Security Council but was later fired.

A: Alexander LEBED

This man, Yeltsin's former bodyguard and a KGB general, won the election. His name is Alexander

A: KORZHAKOV

This former World Chess Champion was also a candidate.

A: Anatoly KARPOV

17

30-20-10, identify the explorer

30: He lost two ships, one which had to turn back and the other which ran into a sandbar and was discovered earlier this year in the Gulf of Mexico.

B. He was killed by mutineers after he insisted on continuing to trek northward along his famous discovery.

C. He is credited with discovering the Mississippi.

ans: Hernando De Soto

18

FTP each, name the impressionist locale.

It was the site of Monet's garden.

A: GIVERNY

It was where Van Gogh was in an asylum.

A: SAINT REMY

Many impressionists lived in this site in Paris, which was located on the hill above Pigalle.

A: MONTMARTRE

19

Given the terrorist group, identify its country FTP each

Lord's Resistance Army

A: UGANDA

Shining Path

A: PERU

Liberation Tigers

A: SRI LANKA

20

It's almost Passover, so here's a bonus on Passover. Answer these questions FTP each.

The Passover ceremony is called this, the Hebrew word for order.

A: SEDER

This is the book used at the seder. It tells the Passover story.

A: HAGADAH

This food symbolizes the mortar of the bricks used by the Jewish slaves under Pharaoh in Egypt.

A: CHAROSES or CHAROSET

21

Identify these hormones for 15 points each.

This hormone increased glycogen metabolism in the liver.

A: GLUCAGON

Tests to determine whether a woman is ovulating look for this hormone. A: LEUTINIZING Hormone

22

Given the work and the year, name the artist, FTP each.

The bronze Perseus, 1554

A: Benvenuto CELLINI

Descent from the Cross, 1611

A: Peter Paul RUBENS

Trinity: Throne of Grace, approximately 1580

A: EL GRECO (Domenikos Theotokopoulos)

23

FTP each, given the quote from Hamlet, name the speaker. "Ronsencrantz and Guildenstern are dead."

A: ENGLISH AMBASSADOR (accept reasonable equivalents)



"I am slain."

A: POLONIUS

"Get thee to a nunnery."

A: HAMLET

24

Given a definition from Ambrose Bierce's The Devil's Dictionary, identify the term FTP each. All begin with the same letter.

In political geography, an imaginary line between two nations, separating the imaginary rights of one from the imaginary rights of the other.

A: BOUNDARY

One who is obstinately and zealously attached to an opinion that you do not entertain.

A: BIGOT

A person who talks when you wish him to listen.

A: BORE

25

30-20-10, name this cabinet secretary.

30: He has an aircraft carrier named for him.

20: The Dept. of Energy headquarters are in a building named for him.

10: He was the first Secretary of Defense.

A: James FORRESTAL

3. Early Soviet leaders often went by their nicknames. Identify the early Soviet leader from their last name FTP each, or for five points each if you need their first name.

A.

i. Ulyanov

ii. Vladimir Illyich

B. Dzughashvili

ii. Joseph Vissarionovich

C.

i. Bronstein

ii. Lev Davydovich