1. According to Arun Unnikrishnan (veteran CAL player), the Basques are the only known living descendents of this group of early man which is at closest a cousin of modern homo sapiens. Recent discoveries show that they split off from the modern man far earlier than was understood. FTP, who, in all likelihood - contra Arun's theory - were hunted into extinction by early modern man, perhaps because of their sloping foreheads and larger brains?
   Ans: NEANDERTHALS

2. This titan sided with Zeus during the war with Cronus after he was told that the Olympians would win. That time he listened to his brother's advice, but another time, he did not. On the second occasion, he married Pandora, although he had been told to avoid a gift from Zeus. FTP, who was this Titan, better at hindsight than his gifted brother?
\EPIMETHEUS\

3. Actually, he was also related to the Stuarts, being the son of Charles II's sister, but his *and his wife* wife's family ties and her Protestantism were paramount. When he arrived in 1688, the Glorious Revolution threw out James II and gave them the throne bloodlessly (well, almost). FTP, who was this Dutch-born ruler of England?
\WILLIAM III or William of Orange \

4. Salinger is famous for his novel Catcher in the Rye, but he also wrote many short stories and other books about this eccentric family of child geniuses, all of whom were on a TV quiz show. Franny and Zoey and Raise High the Roofbeams, Seymour are also about this family. FTP, what is the last name of this group of zanies, who also feature in A Perfect Day for Banana Fish ?
\the GLASS family\

Use #24 5. Tokyo is the capital of Japan. It has been for 300 years, but they are thinking of moving it. But not back to its 1500 location - this city - which was spared the bombing in WW II for the most part. FTP, what city, which used to be known as -- was capital until about 1644?   *Use number 24*
\KYOTO\

6. It is of practical importance in weather forecasting and in investigating density and turbidity currents in oceans, lakes, and resevoirs. It can be used to predict the occurence of fluid turbulence and hence the destruction of density currents in water or air. FTP, what is this parameter defined as the ratio of the density gardient to the velocity gradient?
\RICHARDSON Number\

7. It was French Somaliland. Then for a while it was Issus and Afars, so named after the two largest ethnic groups. Neighboring Ethiopia and Somalia have each laid claim to it, but now both have renounced those claims to what tiny African nation, FTP, whose capital has the same name as this East African nation across the Bab el Mandeb strait from Yemen?
   Ans: DJIBOUTI

8. (reader: adopt robot voice for quote) "ACF has been assimilated. Protests are useless." Just imagine for a moment that instead of resigning, Jim Dendy, Vishnu, and Carol have been incinerated when ACF was taken over by this alien race. For now on, all the bonuses will be worth 27 points, while TUs will be much harder and deal with phasers, magnetic

flux inductors, and warp positron grids. It is not Collegebowl Inc., but FTP, what race from Star Trek Next Generation which runs this efficient but ugly world of quizbowl competition?
/The BORG/

9. There are over 400 known species of these ocean burrowers found in warm waters. While they are related to starfish and have the same short ot suctorial feet, they are typically spherical, disc-shaped, or heart-shaped. Many species excavate nest-like chambers from solid rock with their teeth and spines. FTP, identity these marine echinoderms.
    Ans: SEA URCHINS

10. This German painter of the High Renaissance, like Handel after him, migrated to England where his career achieved its greatest success. Although he was also employed as a goldsmith's designer, he was frequently sent abroad to paint prospective brides for his monarch, Henry VIII. FTP, who was this portraitist, best known for painting Henry VIII, Sir Thomas More, and many of Henry's wives?
    Ans: Hans HOLBEIN the YOUNGER

DD

11. If the pressure remains constant, the volume of a gas varies inversely as the pressure changes. Thsu when volume decreases, pressure increases, and vice versa. This law was discovered in the 17th century by a British scientist. FTP, name either the scientist or his law.
    Ans: BOYLE's law

12. Prior to the French Revolution, the Burbon dynasty used a flag of this color, still integral in today's French Tricolor. In both the Russian and French Revolutions, the forces which remained loyal to the deposed crown took this color as their emblem. FTP, what color is associated with these monarchies, the most famous faction of which battled the Reds in 1919-20 Soviet history?
    Ans: WHITES

13. This probably the best known work by the author in question. The narrator, travelling in winter time, stops his sleigh in some New England rural locale and observes the quiet beauty fo the frozen woods. Although eh would like to linger, his duties call, and he returns to his journey. FTP, this summarizes what poem by Frost whose most famous phrase runs, "And I have many miles to go before I sleep?"
    Ans: STOPPING BY WOODS ON A SNOWY EVENING

14. Your neighbors by a boat, so you buy a yacht -- they buy a Trabbe, so you buy a Yugo -- they eat steak, so you eat ostrich. Yes, you are keeping up with the Joneses and engaging in conspicuous consumption, phenomena outlined, FTP, in what work by Thoresten Veblen?

        Ans. THEORY OF THE LEISURE CLASS.

15. When a ship of corpses drifted into the port of Bergen in August 1349, the townspeople unloaded the cargo and then scuttled the ship and its crew out too sea. This dreadful mistake killed 40,000 of the 100,000 inhabitants within two months because this highly contagious disease was on board the ship of death. FTP, what was this dread disease which ravaged Europe and Asia during our "Middle Ages" ?

Ans: the BLACK DEATH or Bubonic PLAGUE

16. Time for a real math question -- well actually, a complex math question. You are asked to solve the equation "$x^4 + x^3 + x^2 + x + 1 = 0$". You know there are are no real solutions, but at least one complex valued solution -- FTP what theorem are you invoking, first proved by Gauss in 1797?

Ans. The FUNDAMENTAL THEOREM of ALGEBRA

17. Octavian suffered a career setback when this pirate defeated him in a naval battle at Mylae. Octavian was forced to seek help from Antony, but ultimately crushed the son of his adopted father's rival at Naulochos. FTP, who was this thorn in Augustus' side in the middle years of the 2nd Triumvirate, for many, the last hope of the Roman Republic?
Ans: SEXTUS Pompey

18. Microsoft recently announced it is dropping support for Windows NT on the MIPS and Power PC platforms, leaving Intel and this CPU from Digital Equipment Corp. as the only processors supporting NT. FTP, name this chip, listed in the Guinness Book of World's records as the world's fastest processor which shares its name with the first letter of the Greek alphabet.
Answer: ALPHA

19. He was definitely not "Ivy League", though he graduated from Harvard -- among his many misdeeds were accidentally shooting his wife while playing William Tell and a serious heroin habit. He was also a man of letters though, and invented a unique style of writing called "cut-up". His first book "Junky" described his heroin addiction and later books such as "Soft Machine" and "Naked Lunch" were written in an idiosyncratic free verse style. FTP who is this man whose death at the age of 84 was the final coda of the "Beats"?

Ans: William BURROUGHS

20. You are a quantum mechanic working late in the lab listening to "Burning Down the House." All of a sudden some of your integrals diverge off to infinity and your results "Stop Making Sense" ... you have too many virtual photons floating around and the humble electron now weighs more than the universe. FTP, what is the name given to the mathematical sleight-of-hand used to set these infinite results back to measured ones.

Ans: RENORMALIZATION

21. It's commonly called a blood clot, but doctors refer to it by using this other name. Whatever the name, it's still a bit of foreign matter--be it air, fat, or cancer cells blocking the flow of blood. For ten points, what's the scientific term?
Ans: EMBOLUS or EMBOLISM

22. It is so bad, even the soldiers in this nation are starving. While the rest of the world was told that the new dictator - a heaven sent blessing of some sort - was taking over the reigns of power in this idyllic nation from his long-lived tyrannic father, many people were in fact starving. Now it turns out that number may have reached 100,000. FTP, what is this Asian, famine-stricken nation?
Ans: NORTH KOREA (promp on Korea)

23. This word can mean many things; the fitting on an internal combustion engine that recieves the exhaust gasses from several cylinders, a topological space for which every point has a neighborhood locally homeomorphic to a domain in a Euclidean space of the same dimension, and -- many things! FTP, what is the word?

Ans: MANIFOLD

24. She has done just about every job that one could imagine -- not bad for a character modeled after a German streetwalker. In her latest incarnation she will be a dentist with a white lab coat and encourage good oral hygiene by saying "Let's brush" and "Good checkup". Not bad for someone who once thought that "Math is hard" despite also being an astronaut. FTP who is this character beloved by little girls and despised by Naomi Fischer?

Ans. BARBIE

25. His father was a devout Lutheran and instilled the fear of God in him early. Because he felt he was unworthy of love, he broke off his engagement with the one true love of his life -- though he later regretted this action. As he got older he rebelled more and more against faith rooted in rationalism. He was highly critical of Hegel in particular, whom he felt had taken the mystery out of Christianity. He was not widely read while alive, but he tremendously influenced twentieth century philosophy. FTP who was this brooding Dane, the father of existentialism, and whose name reveals where he is buried?

Ans. Soren Abbye KIERKEGAARD (Churchyard)

BASQUE   team Rafi, Gaius, Jeff

1. This tournament is named BASQUE. Identify the following related to the Spanish-French border.
A. (5 points) This mountain chain separates the two nations.
       Ans: PYRENNES
B. (5 points) This 199 sq. m. principality sits on the Pyrennes.
       Ans: ANDORRA
C. (10 points) Within 10 years, identify the year in which the Treaty of the Pyrenees was signed, settling the border between the two nations.
       Ans: 1659 (accept 1649-69)
D. (10 points) Aside from the Basques this other group of people on the border have sometimes clamored for independence from Spain. They settled for semi-autonomy on the Mediterranean coast.
       Ans: CATALANS

2. On a 15/5 basis, identify these two paintings from a description, *or by the artist.*
A. 15 It depicts a diner at night with a couple at one counter, a man sitting alone at another counter, and a soda jerk working behind the counter.
       5 point clue: Hopper
            Ans: NIGHTHAWKS
B. 15 It depicts a boxing match. One fighter is tumbling out of the ring while a large crowd watches in excitement.
       5 point clue: George Bellows
            Ans: STAG AT SHARKEY'S

3. Given the slogan, some of which are derisive, identify the presidential candidate or ticket, FTPE:
A. "In your guts you know he's nuts."
       Ans: Barry GOLDWATER
B. Both candidates (5 each): "Fritz and Grits."
       Ans: Walter MONDALE and Jimmy CARTER
C. Both candidates: "The Boston-Austin Axis Part II"
       Ans: Mike DUKAKIS- Lloyd BENTSEN

4. The three most abundant chemicals in the ocean are Chloride, Sodium, and Sulfate. For 5 each, name the next five. For a 5 point bonus, arrange them in order of greatest to least.
       Ans: (G-L) MAGNESIUM, CALCIUM, POTASSIUM, BIOCARBONATE, BROMIDE

5. Imagine we are in the days of Victorian England and Shakespeare has been bowdlerized to make all the plays have a happy ending - or even a happy middle. Given a short but altered plot summary, identify the original Shakespeare work.
A. (5 points) After much intrigue, a fencing match is arranged between a prince and the pawn of his evil, scheming uncle. When the prince scores the first two touches against his opponent, the king wickedly prepares a cup of poisoned wine for him, but accidentally drinks it himself. When he realizes what he has done, he confesses all before expiring.
       Ans: HAMLET
B. (10 points) A mercenary general weds well, but someone tries to break up the marriage. Just when it looks as though the evil-doer has achieved his goal, the wife makes a wonderfull speech revealing her total innocence. The husband takes a hankerchief and stuffs over the nose and mouth of the bad guy until he suffocates and dies.

Ans: OTHELLO

C. King Leonidas thinks his wife has been unfaithful with his best friend. Just as the evidence is mounting against her, she gives birth to a daughter who is so cute - and looks so much like Leonidas, that his heart melts, he realizes he had misjudged her, and he banishes all thought of sending her into exile for 20 years.
Ans: The WINTER'S TALE

6. In all likelihood, August or maybe September marks the anniversary of a devestating defeat in Roman history at the hands of the Germans. Answer the following about that event:
A. (10 points) Name this A.D. 9 battle where 3 Roman legions were killed and any survivors were sacrificed to Odin.
Ans: TEUTOBERGER WALD (also accept TEUTOBERGER FOREST, SALTUS TUTOBERGENSIS, or even CLADES VARIANA)
B. What ill-fated Roman general and brother-in-law of Tiberius was the Roman commander at Teutoberger Wald.
Ans: Publius Quinctillius VARUS
C. Give the Roman name of Hermann the German, the victor at that battle.
Ans: Gaius Julius ARMINIUS

7. Given an animal, name the appropriate term for its young. Example if I said cat, "kitten" would be the best answer. Each is worth 5.
A. Eagle   EAGLET
B. Penguin   FLEDGLING or CHICK
C. Reindeer   FAWN
D. Rhinoceros CALF
E. Kangaroo   JOEY
F. Clam   LITTLENECK

8. Identify the following old goat authors from clues on a 10/5 basis.
A. 10- He ran for mayor odf New York in 1969 on the slogan, "no more nbullshit."
     5- He wrote Armies of the Night.
          Ans: Normon MAILER
B. 10 - He also ran for Mayor of New York in 1965 and during a televised debate declasred, "I am satisfied to sit back in silence and contemplate my own former eloquence.
     5 - He wrote God and Man at Yale.
          Ans: William F. BUCKLEY
C. 10 - He ran for Congress as a Democrat in NY1960, and though he outpolled JFK by 20,000 votes iun the district, he lost anyway.
     5 - He wrote Lincoln.
          Ans! Gore VIDAL
9. Given the criminal rap sheet of child star, name the star.   FTPE
A. First she posed for Playboy, then she robbed a convenience store. Doh! They caught it on tape and identified her. "Hey, isn't that the girl in Playboy?"
     Ans: Dana PLATO
B. He managed to one-up co-star Dana Plato. His rap sheet includes attempted murder and assault with a deadly weapon.
     Ans: Todd BRIDGES
C. This veteran of a late '60's early '70's sitcom was arrested for drug posession when he was not on the air spouting profanities, or hosting a lousy talk show which has since been discontiuned.
     Ans: Danny BONADUCE (sp?)

10. This bonus is also about stars, but this one is astronomic. Given the temperature

10. This bonus is also about stars, but this one is astronomic. Given the temperature range of a star, name the color for 10. If your guess is wrong, you will be told the color and given a chance for 5 points to name the type of star (i.e. the letter).
A. 10 pointer   5,400-6,300 degrees F
            RED
        type: M
B. 10 pointer   10,800-13,5000 degrees F
            WHITE
        type: F
C. 10 pointer   20,8000-45,000 degrees F
            ·BLUE
        type: B

11. Growth Theory is quite a sexy field in economics these days, especially in the Bay Area. But our question hearkens back to the days the field was still in its infancy. One of the fundamental equations of development economics states the growth in total output will be the savings ratio over the capital output ratio, or g = s/k. For 20 points, name this equations called after the English and American economists who independently came up with this model in the 1940s.

ANS: HARROD-DOMAR

Of course the main limitation of the Harrod-Domar approach is that it black-boxes the capital-output ratio. For 10 points, name Evesy Domar's future MIT colleague and Nobel Prize winner who would become the father of neoclassical growth theory, based on his work in the 1950s and 60s.

ANS: Robert M. SOLOW

12. 30/30/10   Many authors are famous for their plays and novels. Some also did screenplays. Name the writer given 3 clues.
30. Wrote The Chase
20. Wrote The Children's Hour
10. The Little Foxes   Ans: Lilian HELLMAN

13. Solving equations by radicals was long the grail for mathematicians. Unfortuantely, it proved impossible to solve equations of degree five or higher. Answer the following about this.
A. Who showed that general quintic is insoluable?
        Ans: Niels Heinrich ABEL
B. Who showed the insoluability of the general equation of degree N for N greater than 5?
        Ans: Everiste GALOIS
C. This Indian mathematician discovered a formula for solving quintic equations, but not in terms of radicals.
        Ans: Srinivasan RAMANUJAN

14. This bonus is on 1797. Answer the following about that year.
A. American-French relations deteriorated rapidly after a bribe was requested of three American agents in France. FTP by what name was this incident known?
        Ans: the XYZ AFFAIR
B. For 5 each, name any two of the three American commissioners.
        Ans: Charles PICKNEY, Elbridge GERRY, John MARSHALL

C. President Adams was stung by criticism of the undeclared war with France. FTP, in response the Federalists passed these two infamous acts to limit immigration and criticism of the gvt.

Ans: ALIEN AND SEDITION Acts

15. This bonus tests your knowledge of topology. First,
A. FTP in 1960 Steve Smale solved this long standing conjecture named for a French mathematician for dimensions 5 and higher.

Ans: POINCARÉ Conjecture

B. Now for an additional 20, 10 each, name the 2 mathematicians who won fields medals in 1982 for their work on the 3 and 4 dimensional versions of this conjecture. One proved the conjecture in dimension 4, the other developed new techniques for studying three dimensional hyperbolic geometry.

Ans: Michael FREEDMAN and William THURSTON

16. 30/20/10
30. This mythological king of Sparta was once ousted but restored by Agamemnon. He ultimately passed the throne of Sparta to his son-in-law.
20. His wife was Leda, and he had a daughter named Clytemnestra.
10. He was Helen of Troy's step-fatehr by some accounts, although other accounts regard him as Helen's father. He gave her in marriage to Menelaus.

Ans: TYNDAREUS

17. Travels to come with Gaius:
Ever since Gaius got lost in time during the WIT4, the ACF has been unsure what to do with the vacant West Coast chair. Now it turns out Gaius has returned, but only briefly. He will be going to Italy in Oct. to see what remains of the Roman Empire. Answer the following about changes he will see for 15 each:
A. This temple in Rome depicts a sacrifice in 13 BC conducted by the whole imperial family. Now it is partially damaged, but one can still see Augustus, Tiberius, Agrippa, and Varus.

Ans: ARA PACIS or ALTAR OF PEACE

B. This temple was rarely closed in Roman times because that would signify peace. Some say it had 4 doors because its patron in ancient times was known as Quadrifons.

Ans: Temple of JANUS Geminus

18. You are in Berkeley playing BASQUE. Suddenly you are thrown back in time 20 years and the impulse to join a radical leftist group overcomes your better senses. This is, after all, Berkeley. To what country would you have to go to join the following groups:
A. Badder Meinhoff Gang   Ans: WEST GERMANY
B. Red Brigade   Ans: ITALY
C. Shining Path   Ans: PERU
D. FLMN   Ans: NICARAGUA
E. Symbionese Liberation Army   Ans People's Republic of Berkeley, USA
F. EFTA *   Ans: SPAIN or France
          *not sure if the EFTA are left wing ...

19. Answer these questions about modern Turkey.
(10 points) The Turks call this major city Izmir, but many Greeks still insist on calling it by its old name. Greece tried to take this city from Turkey in 1919.

Ans: SMYRNA

(5 points) This incredibly corrupt woman was Turkey's first female head of state. She lost her job when she fell to quarelling with her coalition partner.

Ans: Tansu CILLER (Pronounced GEE lar)
(15 points) As a result of the fall out, the three leading parties in Turkey drew almost dead even in the election at about 20% each. For 5 each, name those three parties - two pro-west Centrist parties and one the anti-west Islamic party which won the election with 21.5%
Ans: MOTHERLAND, WELFARE, and TRUE PATH Party

20. In 1917 Einstein concluded that the universe was dynamic rather than static. This realization ran counter to conventional theory.
A. FTP, with what term did Einstein alter his equations to give static solutions?
Ans: COSMOLOGICAL CONSTANT
B. (5 points) Whose laws did Einstein supercede in regard to the stae if the universe?
Ans: Isaac NEWTON
C. (15 points) What young Russian also realized that Einstein's equations had dynamic solutions, and tried in vain to contact Einstein but to no avail. He received posthumous credit for his efforts.
Ans: Alexander FRIEDMAN

21. Local journalism has a long and honorable history in this country. Unfortunately, most of the great practioners of this art are long gone, and in the past six months have seen their ranks thinned by three more deaths. FTP what three columnists associated with the Chicago Sun-times/Tribune, New York Tribune and Newsday, and the San Francisco Examiner/Chronicle have recently died.

Ans. Mike ROYKO, Murry KEMPTON, and Herb CAEN.

22. Cambodia is in the news now. Answer these questions about the Cambodia of yesteryear.
A. (5 points) What name did the Khymer Rouge rename Cambodia?
Ans: People's Democratic Republic KAMPUCHEA
B. (5 points) Who is the current monarch of Cambodia?
Ans: King Nordram SIHANOUK
C. (10 points) Under what colonial unit was Colonial Cambodia administered?
Ans: FRENCH INDOCHINA
D. (10 points) WHat is the biggest lake in SE Asia, in Cambodia?
Ans: TONE LE SAP

23. Given a set of animals, tell which Norse god is associated with them FTPE.

A 2 Billy goats as chariot drivers. Ans:THOR
B. 2 Cats as chariot drivers. Ans: FREYA
C 2 Ravens as scouts Ans: ODIN

24. 30/20/10 Name the artist
(30) He designed the church of Santa Maria degli Angeli.
(20) A founder of Renaissance architecture, he designed the Ospedale degli
(10) He is most famous for designing the dome of the Florence cathedral

Ans: Filippo BRUNELLESCHI.

25. Given a notorious US politician of yore, name his/her state. FTPE
A. Ma Fergusson TEXAS
B. Senator Cotton Ed Smith S. CAROLINA
C. Edwin "Boss" Crump TENNESSEE