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1996 Cardinal Classic VI BYU B Packet-Tossups

1. Examples of this French term include "Aeolian harp," "Octave," "Winter Wind," "Butterfly," "Black Key," "Ocean," "Cello," and "Revolutionary." These are all nicknames for pieces from, FTP, what genre composed by Frederic Chopin, named for the French word for "study."

A. ETUDE

2. This philosopher defined philosophy as the love of wisdom, theory as contemplation, and cosmos as order. He said that there are three kinds of lives: the acquisitive, the competitive and the contemplative, the last class being the best. FTP, name the man that noticed that the interval in an octave is 2 to 1 and who made the puzzling claim that "things are numbers."

A. PYTHAGORAS

3. Write down a list of the first n positive integers. Cross off the number one. Cross off all multiples of two, then all multiples of three. Since four is already crossed off, skip it and then mark off all the multiples of five. Continue until you get to the end of your list. FTP, by what process have you determined the prime numbers on your list?

A. SIEVE OF ERATOSTHENES

4. It started on March 23, 1862, at the Battle of Kernstown. May 8 saw action at McDowell, by Front Royal, Winchester, Cross Keys, and ending on June 9 at the Battle of Port Republic. FTP, identify the location of this campaign, which marked the highlight of Stonewall Jackson's career.

A. SHENANDOAH VALLEY campaign

5. They lived on the farther bank of Ocean, their names were Enyo, Pephredo, and Deino, and they were the sisters of the Gorgons. Sharing only one eye and one tooth between them, Perseus robbed them of these, and forced them to show him the way to their sisters. FTP, identify this trio of sisters, named for the color of their hair.

A. GRAEAE or GRAIAE

6. Without it, you would probably say "I beat a bet" instead of "I bite a beet." It slowly took place in England between the twelfth and sixteenth centuries. Under it, long

vowels came to be pronounced in a higher position in the mouth, and those at the top became diphthongs. FTP, name this English phonological phenomenon.

A. The GREAT VOWEL SHIFT

7. This company took the publishing world by storm in 1995, dominating the paperback best-seller lists in Great Britain. The concept was simple: reproduce great short works of literature in pocket-size books and sell them near the cashier for a dollar. FTP, identify the publishing house which celebrated its 60th anniversary by issuing its 60's series.

A. PENGUIN Books

8. Her real name is Annie. She is the daughter of a rich businessman from Schenectady, New York, but Winterbourne meets her in Vevey, Switzerland. Mrs. Walker is concerned that she runs around with Giovanelli, and her fears are realized in the worst way when this title character dies of the Roman fever. FTP, identify this Henry James character.

A. DAISY MILLER

9. He was an All-American on Penn State's undefeated 1968 and 1969 teams. Then he became an All-Pro pass rusher with Cincinnati, becoming the 1971 Rookie of the Year. He left football at the top of his game in 1974 and hit the road as a singer-songwriter, opening for B.B. King and Emmylou Harris. FTP, who is this multi-talented composer of "Different Fields," an opera about football?

A. Mike REID

10. It's been slowing down recently, with average intervals of 77 minutes, compared with 62 minutes in 1950. Debris dropped in its cone has partially stopped it up, and local seismic activity has changed the flow of water. FTP, name this most famous geyser in Yellowstone National Park.

A. OLD FAITHFUL

11. The state fossil is the Tully Monster, the state dance is the square dance, the state insect is the monarch butterfly, and the state prairie grass is the Big Bluestem. FTP, identify this home of Lorraine Hansberry, Ray Bradbury, and Vachel Lindsay, whose state slogan is "Land of Lincoln."

A. ILLINOIS

12. In a note to the 1891 first edition, the author quotes St. Jerome, saying "if an offense come out of the truth, better is it that the offense come than the truth be concealed." FTP, name this now-classic novel by Thomas Hardy subtitled "A Pure Woman," telling the story of two characters whose names appear in the title, as well as Angel Clare.

A. TESS OF THE D'URBERVILLES

13. Lasting from 850 to 1150 AD, this period of Japanese history saw the transfer of the court from Nara to Kyoto. The Fujiwaras dominated the court, and works like the *Kokinshu*, *Tale of Genji*, and *Pillow Book* of Sei Shonagon were produced. FTP, identify this period, which translates roughly as “peace and ease.”

A. HEIAN period

14. Lesser known agents in this organization included Agent 54, who was painted blue to death in “Bronzefinger” and Agent 8-and-a-half, who hid inside the bowling ball return in “Diamonds are a Spy’s Best Friend”. FTP, identify this intelligence organization, which also employed crack agents 99 and Agent 86, Maxwell Smart.

A. CONTROL

15. Ratified on August 20, 1842, one of its secondary provisions called for the US and Great Britain to cooperate in suppressing the African slave trade. FTP, name this treaty which fixed the boundary of Maine, named for the Secretary of State and his friend who negotiated it.

A. WEBSTER-ASHBURTON Treaty

16. Norman Mailer’s *Armies of the Night* takes its name from this poem, which contains other memorable phrases like “And we are here as on a darkling plain.” It begins with the line “The sea is calm tonight.” FTP, name this Matthew Arnold poem, which is named for a place with white cliffs.

A. “DOVER BEACH”

17. For a quick ten points, what is the sum of all the angles between 0 and 2π whose sines and cosines are equal?

A. 3π OVER 2 radians or 270 degrees

18. Among its provisions were a shortening of the polling period from two weeks to two days, an extension of the franchise to tenant farmers and merchants based upon the value of their land or rent, a redistribution of Parliament seats to the big cities, and the elimination of many “rotten boroughs.” FTP, name this bill passed by Parliament in 1832.

A. REFORM (Bill or Act)

19. His equation allows for the calculation of the index of refraction for an arbitrary propagation direction, allowing us to calculate values for retarder plates and calcite crystals, for example. FTP, name this influential figure in optics and electromagnetic theory, who

confirmed Young's results in 1814 and established the wave theory of light.

A. Augustin Jean FRESNEL

20. He has been cited as a scientific "prophet without honor in his own country" because his work was largely unrecognized in America. European scientists were well aware of his work, however, and Maxwell referred constantly to his "On the Equilibrium of Heterogeneous Substances." FTP, identify this Yale professor, father of chemical thermodynamics, for whom a free energy is named.

A. Josiah Willard GIBBS

21. It helps explain the rare combinations of alleles which may be found in unusually high proportions on distant oceanic islands. A few individuals are separated from their place of origin and begin a new population. The alleles carried by these members gain new prominence, because now form a significant fraction of the gene pool. FTP, name this principle.

A. FOUNDER (principle or effect)

22. Duke Vincentio leaves Vienna, entrusting it to Angelo. He sentences Claudio to death for sleeping with his fiancée, Juliet. Later, Angelo is tricked by Claudio's sister Isabella into sleeping with his fiancée Mariana. The duke, who has been around all along in disguise, returns to make everything all right, FTP, in what dark comedy by Shakespeare?

A. MEASURE FOR MEASURE

23. It was written in Beethoven's last period, starts with a dotted rhythm, has four movements, lasts around forty-five minutes, has a large fugue in one of the movements, and ends with so called octave trills. FTP, give the nickname of this Sonata, considered to be the most difficult of all the Beethoven sonatas.

A. HAMMERKLAVIER

24. In 1900, Louis Armstrong was born. In 1872, Calvin Coolidge was born. In 1831, James Monroe died. And both John Adams and Thomas Jefferson died in 1826, FTP, on what day, on which in 1776 the Declaration of Independence brought before the Second Continental Congress?

A. JULY 4

25. His artistic development was guided by Calvinist philosophy, in which art helped him to attain spiritual absolutes. He believed that "reality can be expressed only through the equilibrium of dynamic movements of form and color." FTP, name this Dutch artist, who reduced all formal elements to flat surfaces, straight lines, right angles, and red, yellow,

and blue colors.

A. Piet MONDRIAN

26. With the recent upheavals in the NFL, this team stands as a counterexample. It is the only NFL team owned by a municipality. All earnings are donated to charity or reinvested in the team, and should the team go under, the assets will be divided between the American Legion and community chest. FTP, name this team, currently coached by Mike Holmgren.

A. GREEN BAY (accept PACKERS)

27. The persons include Doctor Parcival, Will Henderson, the editor of the local paper, Reverend Curtis Hartman, and Elmer Cowley. The tales include "Hands," "Paper Pills," "Queer," and "Departure." FTP, identify this collection of stories, bound together by young reporter George Willard, the masterpiece of Sherwood Anderson.

A. WINESBURG, OHIO

1996 Cardinal Classic VI BYU B Packet–Bonuses

1. (30) For ten points each, expand the following consumer product name brands into the words from which they were created:

- | | |
|-------------|--------------------------------|
| (10) Spam | A. SPICED HAM |
| (10) Ex-Lax | A. EXCELLENT LAXATIVE |
| (10) POG | A. PASSIONFRUIT, ORANGE, GUAVA |

2. (30) Identify the mathematician, 30-20-10.

(30) A multiplier named for him allows one to find a relative maximum or minimum of a function subject to a constraint.

20) In group theory, his theorem states that given a finite group, G , and H , a subgroup of G , the order of H divides the order of G .

10) This Frenchman's most famous work is his 1788 *Analytical Mechanics*, an algebraic study of planetary motion, liquid flow, and vibrating strings.

A. Joseph Louis LAGRANGE

3. (30) By now we all know the four main islands of Japan, but what about the others? For ten points each, identify the following

(10) The island group stretching from Kyushu southeast to Taiwan. Okinawa is the largest.

A. RYUKYU Islands

(10) The island group stretching from Hokkaido northeast to the Kamchatka Peninsula, whose ownership is disputed with Russia.

A. KURIL Islands

(10) The large island directly north of Hokkaido whose ownership has also long been disputed with Russia.

A. SAKHALIN Island

4. (15) Much of literary criticism revolves around the Bard. Identify the authors of these critical essays which refer to Shakespeare for ten points each.

(15) *Hamlet and his Problems*, 1920
A. T.S. ELIOT

(15) "Representing Ophelia: Women, Madness and the Responsibilities of Feminist Criticism," 1985
A. Elaine SHOWALTER

5. (20) Identify the biological cycle for ten points each.

(10) Also known as the citric-acid cycle, it is the principal pathway of oxidative respiration in the body.

A. KREBS cycle

(10) It consists of the dark reactions of photosynthesis and takes carbon dioxide to produce glucose.

A. CALVIN cycle

6. (30) Name the poet from clues, 30-20-10.

(30) Coleridge wrote that this poet was, "Rhyme's sturdy cripple, fancy's maze and clue, Wit's forge and fire-blast, meaning press and screw."

(20) In one of this poems he tries to convince his mistress that sex would not be a harmful thing by referring to the mingling of blood that goes on with the title insect.

10) That poem is "The Flea." He also wrote "The Sun Rising" and "A Valediction: Forbidding Mourning."

A. John DONNE

7. (20) CBS and "60 Minutes" recently became embroiled in a legal controversy with a major tobacco company. For ten points each:

(10) Name the tobacco company which has tried to discredit the report which could cause criminal charges to be brought against retired executives at the company.

A. BROWN AND WILLIAMSON

(10) Name the former Brown and Williamson executive who turned whistle-blower, thus creating the controversy.

A. Jeffery WIGAND

8. (30) These two philosophers were quite a ways ahead of their time. They hypothesized that all things were made of uncuttable atoms, and they hypothesized something else. For ten points each, name the two philosophers who founded atomism, and the name given to that which was contrary to atoms in their philosophy.

A. LEUCIPPUS, DEMOCRITUS, VOID (accept EMPTY)

9. (30) I'll give you a series, either by name or by titles in the series, and you identify the author for ten points each.

(10) *Out of the Silent Planet, Perelandra, That Hideous Strength*

A. C.S. LEWIS

(10) The "Crystal Singer" Trilogy

A. Anne McCAFFREY

(10) 10) The "Westmark" Trilogy

A. Lloyd ALEXANDER

10. (30) Identify the Civil War historians from works, for ten points each.

(10) The Pulitzer Prize-winning *Battle Cry of Freedom*

A. James McPHERSON

(10) The three volume *The Civil War: A Narrative*

A. Shelby FOOTE

(10) The four-volume series *The War for the Union*, and *Ordeal of the Union*

A. Allan NEVINS

11. (20) For five points each, given the name of a mythological woman, name the man or god who loved her.

(5) Thisbe

A. PYRAMUS

(5) Galatea

A. PYGMALION

(5) Eurydice

A. ORPHEUS

(5) Daphne

A. APOLLO

12. (30) Time for constants. I'll give the value, you name the constant for ten points each.

(10) $4\pi \times 10^{-7}$ henries per meter

A. PERMEABILITY OF FREE SPACE or PERMEABILITY CONSTANT or PERMEABILITY IN A VACUUM

(10) 1.38×10^{23} joules per degree Kelvin

A. BOLTZMANN'S constant

(10) 10) 8.31 joules per mole degree Kelvin

A. UNIVERSAL GAS constant

13. (30) Given the title of a Caldecott Medal winning book, name the author for five points, and the other Caldecott Medal-winning book by that author for ten points.

(15) *Jumanji*

A. Chris VAN ALLSBURG, The POLAR EXPRESS

(15) *Make Way for Ducklings*

A. Robert McCLOSKEY, TIME OF WONDER

14. (30) Identify the authors of these "American" works for ten points each.

(10) *The American*

A. HENRY JAMES

(10) *The Ugly American*

A. William LEDERER or Eugene BURDICK

(10) *American Notes*

A. Charles DICKENS

15. (30) Give the creators of these works of American art for ten points each.

(10) "Target with Four Faces"

A. Jasper JOHNS

(10) "Kindred Spirits"

A. Asher DURAND

(10) "The Gross Clinic"

A. Thomas EAKINS

16. (20) Time again for goofy team names. For five points each, give the nicknames of the sports teams of the following schools.

(5) Centenary

A. GENTLEMEN

(5) Evansville

A. PURPLE ACES

(5) St. John's

A. RED STORM

(5) Wisconsin-Green Bay

A. Fighting PHOENIX

17. (25) Identify the historically important document from quotes, 25-10

(25) "A republic, by which I mean a government in which the scheme of representation takes place, opens a different prospect, and promises the cure for which we are seeking."

(10) To the people of the State of New York: among the numerous advantages promised by a well-constructed Union, none deserves to be more accurately developed than its tendency to break and control the violence of faction.

A. FEDERALIST Paper NUMBER TEN

18. (20) New York *Herald* owner James Gordon Bennet, Jr. sent his star reporter to find a missing explorer who had set out to find the source of the Nile. For five points each...

(10) Name the reporter and the explorer, in that order.

A. Henry Morton STANLEY, Dr. David LIVINGSTONE

(5) Name the lake by which Stanley met Livingstone

A. Lake TANGANYIKA

(5) In what Reconstruction year did the meeting take place?

A. 1871

19. (20) Birmingham, Alabama was one of the major stages of the civil rights movement in the 1960's. For ten points each,

(10) Name its pugnacious police commissioner who represented the enemy of the movement.

A. Eugene "Bull" CONNOR

(10) Name the now-famous baseball team that dissolved rather than comply with integration orders.

A. Birmingham BARONS

20. (30) Apple Computer has fallen on hard times recently, as evidenced by its recent change in chairman and CEO. For ten points each, name the current President and CEO and his two immediate predecessors. Hint: None is Steve Jobs.

A. Gilbert AMELIO, Michael SPINDLER, John SCULLEY

21. (30) Early in the nineteenth century, Sir Humphry Davy isolated six new chemical elements by electrolysis of their molten carbonates or oxides. For five points each, name them.

A. SODIUM, POTASSIUM, MAGNESIUM, CALCIUM, STRONTIUM, BARIUM

22. (30) Aside from the three major Axis powers, six nations officially entered World War II on the side of the Axis. Name them for five points each.

A. ALBANIA, BULGARIA, FINLAND, HUNGARY, ROMANIA, THAILAND

23. (20) By now, you should know the 5 novels comprising the Leatherstocking Tales. But, for ten points each, tell me...

(10) Which was written first?

A. The PIONEERS

(10) In which one does Leatherstocking die?

A. The PRAIRIE

(10) In which is Natty Bumppo the youngest? A. The DEERSLAYER

24. (30) It's time to pay homage to Bloom County. For ten points each...

(10) What is the secret ingredient in Dr. Oliver's miracle scalp tonic?

A. CAT SWEAT

(10) Whose brain was transplanted into Bill the Cat after being hit by an anchor?

A. Donald TRUMP

(10) What kind of animal is Rosebud?

A. BASSELOPE