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25 Mar 2002

Jon,

Our mailer is acting up, so you may get two copies of this. Here's the Maryland I packet for the UNC tournament. We'd like to be called "Maryland Bubba Bo Bob Brain". Our second team will be "Maryland General Pinkney". It wasn't my idea, but please try to humor us. BTW, one of our first team (Jesse) may not be able to come down on the first day. We'd appreciate it if you could move the MD I vs. Tech I match to the second day if at all possible so we can play our best team. I look forward to your tournament.

--Vishnu

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Maryland I Toss-ups  
by V. Jejjala, N. Low, J. Molesworth

T-1. From the innocence of childhood, to the flush of youthful overconfidence, through the trials and tribulations of middle age, to the hero's triumphal salvation, this four part series of paintings traces the voyage of an archetypal hero. A possible warning to those caught up in the feverish quest for Manifest Destiny, it is also intrinsically linked to the Christian doctrine of death and resurrection. FTP identify this work by the Hudson River School painter Thomas Cole.

THE VOYAGE OF LIFE

T-2. Dying, Cherokee Sal, a prostitute who frequents the mining camps gives birth to a child adopted by gold-diggers. The following year, the camp is destroyed in a flood, and the miner Kentuck dies with the child in his arms. FQTP identify this short story first printed in the Overland Monthly that helped establish Bret Harte's fame.

"THE LUCK OF ROARING CAMP"

T-3. An elegant experiment to demonstrate that a superconductor is both a perfect conductor and a perfect diamagnet was performed in 1933. Studies regarding the magnetic behavior of superconductors cooled below the critical temperature demonstrated that the magnetic flux is expelled from the interior of the sample. FTP identify this property of flux expulsion that was named for its discoverer.

MEISSNER EFFECT

T-4. The US Supreme Court, in Benton v. Maryland (1969), held that this principle was applicable to the states through the due process clause of the fourteenth amendment. Under it neither federal nor state officers can appeal a verdict of acquittal, but the accused may appeal a verdict of guilt. This principle embodied

in the fifth amendment states that no person may be tried for the same crime twice. FTP identify this legal protection that is also the name of the second round in a popular game show hosted by Alex Trebek.

DOUBLE JEOPARDY

T-5. A translator of works by Aristotle and the neo-Platonist Porphyry, he wrote a number of philosophical treatises, especially on logic, which became textbooks for the schoolmen of the Middle Ages and were their major source of knowledge about the thinkers of antiquity. Appointed consul in 510, he was accused of treason and executed. FTP identify this thinker under Theodoric the Great who is best known for The Consolation of Philosophy.

BOETHIUS

T-6. A pioneer of slapstick humor, his early films are characterized by his association with D.W. Griffith. After forming his own film company, he made over a thousand "shorts" with actors such as Fatty Arbuckle, W.C. Fields, Gloria Swanson, and Charlie Chaplin. FTP identify this Canadian-born silent movie director who achieved his greatest fame through his portrayal of the exploits of Bathing Beauties and the Keystone Kops.

Mack SENNETT

T-7. A little magazine published in England between 1911 and 1919, it was originally founded as a feminist publication. Introducing the works of such writers as Hilda Doolittle, Richard Aldington, Rebecca West, T.S. Eliot, and Ezra Pound to English readers, it became the chief organ of imagist poetry. FTP identify this eminent literary journal which shares its name with a George Meredith novel.

The EGOIST

T-8. They were exposed on the testimony of Pinkerton agent James McParlan who infiltrated the organization and exposed tactics such as intimidation, sabotage, and even murder against police. Dramatized in a film by Martin Ritt, they borrowed their name from an Irish anti-landlord organization. FTP what was this Irish-American secret society that protested the harsh conditions and contributed to labor unrest in the Pennsylvania anthracite mining area.

MOLLY MAGUIRES

T-9. A contemporary of Euler and Daniel Bernoulli, he is primarily known for his work in mechanics and differential equations. The wave equation first appeared in his paper on vibrating strings in 1747. In his later years he devoted himself primarily to philosophy and worked as the science editor of Diderot's Encyclopedie. FTP identify this French mathematician who discovered a famous paradox in hydrodynamics.

Jean D'ALEMBERT

T-10. Married and with a daughter, her poems survive only in fragments. However, the lyrical intensity and economy of her writings prove that her reputation as the tenth muse was not exaggerated. The legend that she flung herself into the sea on being rejected by Phaon has been the subject of works by Ovid, Lyly, and MacKaye. FTP identify this leader of a group of young female devotees of Aphrodite who was a native of Lesbos.

SAPPHO

T-11. An important church official in his native Spain, he went to Languedoc in 1205 to preach orthodox doctrine to the Albigenses, but, contrary to tradition, he was not an inquisitor. Nor de he take part in the bloody massacre of the Albigenses who held to the Manichaeian heresy. In 1215 he organized his band of followers into the "Preaching Friars" and dedicated his life to missionary work. FTP identify this founder of an important Roman Catholic order who is immortalized in the fourth sphere of heaven in Dante's

Paradiso.

St. DOMINIC

T-12. Twenty-seven miles long and fourteen miles wide, it is of volcanic origin with one active volcano. The terrain is hilly with Morne Gimie reaching 3145 feet, and the interior is covered with tropical rain forests, but that is not to say there is not room for resorts such as Sandals. FTP name this West Indian island native to Nobel laureate Derek Walcott whose capital is Castries.

ST. LUCIA

T-13. Named after a British engineer who first proposed it in 1883, it is a dimensionless figure that is used in flow analysis. The ratio of inertia and viscosity, it describes the relative turbulence of a flow. FTP identify this important concept in fluid mechanics.

REYNOLDS NUMBER

T-14. A collection of twenty-five tales and sketches, it is one of the finest collections in American literature. It contains such short stories as "The Celestial Railroad", "Young Goodman Brown", "The Birthmark", and "Rappaccini's Daughter". FTP identify this work, the opening sketch of which describes the Concord parsonage in which Nathaniel Hawthorne penned these tales.

MOSSES FROM AN OLD MANSE

T-15. In despair over his venereal infection and his operatic failures, in October 1825 he returned to Vienna resolving to write what he called "a grand symphony." Three years later, in the last days of his life, he revised the manuscript to the "Symphony No. 9 in C, D. 944" but could not sell it to the Vienna Musical Society. FTP identify this composer of the "Great Symphony" that is catalogued after the "Unfinished Symphony."

Franz SCHUBERT

T-16. James Joyce publishes Finnegan's Wake; the complete English translation of Mein Kampf is printed; William Butler Yeats, Douglas Fairbanks, and Sigmund Freud die; Sikorski constructs the first helicopter; FDR appoints William O. Douglas and Felix Frankfurter to the Supreme Court; Nobel Prize goes to Ernest Lawrence for developing the cyclotron; Gone with the Wind wins Oscar for Best Picture; and Germany invades Poland beginning World War II. FTP in what year did all these events take place?

1939

T-17. Closely associated with Wordsworth and Coleridge, he resided for a time in the Lake Country. Born thirteen years before the publication of Lyrical Ballads, he was one of the major critics of the Romantic movement, his clear, judicious taste and remarkable insight appears in such essays as Suspira de Profundis (1845), The English Mail Coach (1849), and Confessions of an English Opium Eater. FTP identify this English essayist and critic.

Thomas DE QUINCEY

T-18. Though his Geography proved invaluable to Julius Caesar in his military campaigns, he is better remembered today as a scientist. Living in the third century BC, he served as the second head librarian at the Great Library. His renown largely rests on his accurate measurement of the circumference of the Earth based on the position of the sun at Syene and at Alexandria. FTP identify this early astronomer.

ERATOSTHENES

T-19. Founded c. 900 BC, Herodotus claims that it participated in the Doric festival, but in classical times its culture was Ionic. The capital of a minor dynasty, it joined the Delian League as an Athenian naval station. Thereafter, it became one of the most spectacular cities of the ancient world until it was captured by

Alexander after an arduous siege in 334 BC. FTP name this Greek city of Caria most famous for its Mausoleum.

HALICARNASSUS

T-20. Often represented dark blue in color, holding in his four hands a lotus, mace, discus, and conch, he is portrayed in an ancient Hindu text as the primal god. His followers worship his many avatars which include Buddha, Rama, and Krishna. FTP who is this consort of Lakshmi, the second deity in the Trimurti representing the preserving and protecting aspects of the godhead.

VISHNU (do not accept Vishnu Jejjala)

T-21. He appears often in literature, as in a title poem by John Masefield. In addition he is sometimes identified with the man who, according to Geoffrey of Monmouth, made himself king of the Britons in the third century, was the father of St. Helena and thus the grandfather of the Emperor Constantine the Great. But undoubtedly he is best known as the subject of a nursery rhyme. FTP who was this "merry old soul"?

Old KING COLE

T-22. They released their first self-titled album in 1974 and released their second the following year under a new record label and with a new drummer. Over the course of the next two decades, this band found its own style, based on Geddy Lee's unique voice and the poetic lyrics of Neil Pert. FTP name this band from Canada whose hit songs include Working Man, Limelight, and Tom Sawyer.

RUSH

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#### Maryland I Bonus Questions

by V. Jejjala and J. Molesworth

B-1. [30] Everybody always credits the director in a good film, but what about the importance of the screenwriter? Identify the screenwriter from the film FTP or from a brief clue FFP.

10: Lawrence of Arabia, Dr. Zhivago, Ryan's Daughter

5: This English playwright's reputation rests on his historical drams, all of which involve confrontations of differing values that have altered history. Along with State of Revolution, his best known play is A Man for All Seasons.

Robert BOLT

10: Empire of the Sun, The Russia House, parts of Brazil

5: A Czech-born playwright, he moved to England with his family at the age of nine and became a journalist at seventeen. Among his better known plays are The Real Thing, Travesties, and Rosencrantz and Guildenstern are Dead.

Tom STOPPARD

10: Schindler's List, parts of Searching for Bobby Fischer

5: In addition to winning a best screenplay Oscar for Schindler's List, this playwright stepped behind the camera to direct Searching for Bobby Fischer. Steven ZAILLIAN

B-2. [30] Identify a work in which the following fictional cities created by American authors FFP each and five more for all correct.

a. Zenith, the Zip City

BABBIT

b. Port Warwick

LIE DOWN IN DARKNESS

c. Altamont, North Carolina

LOOK HOMEWARD, ANGEL or

OF TIME AND THE RIVER or

THE WEB AND THE ROCK or

YOU CAN'T GO HOME AGAIN

d. Gopher Prairie

MAIN STREET

e. Mason City

ALL THE KING'S MEN

B-3. [30] Answer these questions from the Seven Years War?

a. The commanding English general in the Battle of Quebec, although triumphant he was mortally wounded there.

James WOLFE

b. What is the name of the battlefield at the Battle of Quebec?

PLAINS of ABRAHAM

c. Which general who lost the battle was also fatally wounded there?

Louis MONTCALM

d. What historian wrote the book Montcalm and Wolfe detailing the opposing generals?

Francis PARKMAN

e. What British artist painted the Death of General Wolfe?

Joshua REYNOLDS

f. In what novel by Thackeray that is the sequel to Henry Esmond does Wolfe play a prominent role?

THE VIRGINIANS

B-4. [30] Name the physicist, 30-20-10.

30: A German theoretician who made major contributions to relativity theory, matrix mechanics, optics, and the kinetic theory of gases, he acquired an extensive mathematical background as the private assistant to David Hilbert.

20: From 1921 to 1933, he headed the Theoretical Physics Center at Gottingen. Fired by the Nazis, in his later years he worked at the University of Edinburgh where he campaigned against nuclear weapons and translated German humorists into English.

10: By applying Schroedinger's equation to atomic scattering, he developed an approximation method for carrying out calculations of the probability of scattering a particle into a given solid angle. This provided the basis for his startling statistical interpretation of the wave function as a probability density. It was for this that he won the 1954 Nobel Prize.

Max BORN

B-5. [30] Answer these questions about a Verdi opera for the stated number of points.

5: Written on commission by Ismail Pasha, Khedive of Egypt, to celebrate the opening of the Suez Canal, the title character is an Ethiopian princess who is the personal slave to Amneris.

AIDA

10: Aida loves what captain of the guards appointed by the gods as the leader of the Egyptian armies in war with Ethiopia?

RADAMES

15: Radames accidentally betrays the Egyptian cause by telling Aida about troop movements. Their conversation is overheard by the king of the Ethiopians and the father of Aida. For a well earned 15 points, name him.

AMONASRO

B-6. [30] FTP given some lines of romantic poetry name the poet.

5 points are awarded if you need the name of the poem.

10: "The very deep did rot: O Christ!  
That ever this should be!  
Yea, slimy things did crawl with legs  
Upon the slimy sea."

5: "The Rime of the Ancient Mariner"  
Samuel Taylor COLERIDGE (do not accept Wordsworth)

10: "A heavy weight of hours has chained and bowed  
One too like thee: tameless, and swift, and proud."

5: "Ode to the West Wind"  
Percy Bysshe SHELLEY

10: "O, what can ail thee, knight-at-arms,  
Alone and palely loitering?  
The sedge has wither'd from the lake,  
And no birds sing."

5: "La Belle Dame Sans Merci"  
John KEATS

B-7. [30] Answer these questions about the myth of Atalanta FFP

each.

a. King Oeneus fucked up a sacrifice to Artemis, so she sent down what beast to slay his cattle and ravish his crops?

CALYDONIAN BOAR

b. What son of Oeneus insisted that Atalanta be allowed to participate in the hunt for the Calydonian Boar?

MELEAGER

c. Meleager's mother knew that her son could live only as long as a certain brand in the hearth remained unburned. Name his mother who burns the brand in a fit of anger following Meleager's presentation of the Calydonian Boar's hide to Atalanta.

ALTHAEA

d. Atalanta vowed to marry the man who could best her in a footrace. Who contrived to win the hand of Atalanta in marriage by distracting Atalanta in the race with golden apples borrowed from Aphrodite?

MELANION

e. Atalanta lay with Melanion inside a precinct of Zeus. Angered by the defilement of his temple, Zeus changes them into what animals?

LIONS

f. Some say that Atalanta had previously bedded with Meleager. What bastard child, one of the Seven Against Thebes, sprung from this union?

PARTHENOPAEUS

B-8. [30] Answer these questions about the aftermath of the Glorious Revolution FFP each.

a. In what year did the Glorious Revolution occur?

1688

b. What Stuart king was expelled?

JAMES II

c. Though James II did not have much support in England, he fared better in Scotland and Ireland. What 1689 battle did his Scottish adherents win?

Battle of KILLIECRANKIE

d. His efforts met an unfortunate end at what 1690 battle in Ireland?

Battle of BOYNE

e. During a war of attrition with France fought partly over the legitimacy of the Revolution of 1688, what British soldier commanded the army of the Grand Alliance?

John CHURCHILL or Duke of MARLBOROUGH

f. Objecting to the Hanoverian Succession following the death of Queen Anne, what "Old Pretender" led the Jacobite Rebellion of 1715?

JAMES EDWARD

B-9. [30] Identify the mathematician from a brief description of a theorem named for him for 15 points each.

a. If  $a$  is an integer and  $p$  is a prime not dividing  $a$ , then  $a$  to the  $(p-1)$  mod  $p$  is 1.

FERMAT's Little Theorem

b. If  $C$  is a piecewise smooth, simple closed curve that bounds a planar region  $R$ , and if  $M(x,y)$  and  $N(x,y)$  are continuous and have continuous partial derivatives along  $C$  and throughout  $R$ , then the line integral over  $C$  of  $M dx + N dy$  equals the integral over  $R$  of  $dN/dx - dM/dy dA$ .

GREEN's Theorem

B-10. [30] Which architect designed the following FFP each?

a. Palace of Blenheim

John VANBRUGH

b. Seagram Building

Ludwig MIES VAN DER RHOE

c. Church of the Sagrada Familia

Antonio GAUDI

d. Parthenon (447-432 BC)

ICTINUS and CALLICRATES

(do not accept Phidias)

e. Church of San Lorenzo

Fillipo BRUNELLESCHI

B-11. [30] Identify these Norwegian Nobel laureates in literature FTP each. [Moderator--there are only 3 Norwegian winners. Do not reveal answers until the end of the question.]

a. His first novel Hunger met with considerable critical success and established his reputation. His better known works include Mysteries, August, and The Growth of the Soil.

Knut HAMSUN

b. A friend and rival of Ibsen, he wrote plays of social realism that enjoyed great popular success. He won the 1903 Nobel Prize.

Bjornstjerne BJORNSON

c. This author's famous historical works included Kristin Lavransdatter, Olaf Audunsson, and Saga of Saints.

Sigrid UNDESET

B-12. [30] Put these events from Roman history in chronological order from earliest to latest: Hannibal crosses Alps, work starts on Appian Way, Twelve Tables issued, Coriolanus banished from Rome, Crassus killed in battle, and Marius wins in Gaul.

CORIOLANUS (491 BC), 12 TABLES (450 BC), APPIAN WAY (312 BC), HANNIBAL (218 BC), MARIUS (101 BC), CRASSUS (53 BC)

B-13. [30] FFP each answer these questions about structuralism.

a. An early champion of this school of thought, he held that all human behavior arises from an innate organizational capacity that gives rise to language, myths, and social patterns. This anthropologist's magnum opus is The Savage Mind.

Claude LEVI-STRAUSS

b. A French literary critic and theorist, he asserted that language is a system of signs that reflect the society and time in which it was used. He wrote the important thesis Writing Degree Zero. He died after being hit by a laundry truck.

Roland BARTHES

c. A French essayist and historian, he is particularly concerned with identifying the basic principles that underlie the creation of social institutions. He wrote Madness and Civilization, The Order of Things, and The History of Sexuality.

Michel FOUCAULT

d. A literary theorist, he maintained that the interaction of reason, imagination, and experience constantly changes the nature of knowledge itself. He is the author of The Psychoanalysis of Fire and The Philosophy of No.

Gaston BACHELARD

e. He displays highly abstruse, metaphysical thinking about language, the solitude of the artist, the absurdity of existence, and death. His fictional writings include Thomas the Obscure and Death Sentence.

Maurice BLANCHOT

f. A society of mathematicians named after a French-Polish general, they applied structuralist philosophy to mathematics.

Nikolai BOURBAKI

B-14. [30] Identify these theologians of the Middle Ages from their cool nicknames FFP each.

a. Doctor Angelicus Thomas AQUINAS

b. Doctor Invincibilis and Venerabilis Inceptor

William of OCCAM

c. Doctor Subtilis John DUNS SCOTUS

d. The Seraphic Doctor St. BONAVENTURE

e. Doctor Mirabilis and The Admirable Doctor

ROGER BACON

f. The Morning Star of the Reformation

John WYCLIFFE

B-15. [30] Identify these terms from molecular biology FFP each and a 5 point bonus for all correct.

a. The class of proteins such as EcoRI that recognize and cut specific portions of DNA. RESTRICTION ENZYMES

b. How many amino acids exist naturally? TWENTY

c. This amino acid starts out most proteins. METHIONINE

d. The receptor on T-cells to which the gp120 protein of HIV binds. CD4

e. The technique that allows gel electrophoresis study of proteins is referred to by what name? WESTERN blot

B-16. [30] Answer these questions about Shakespeare's Hamlet for the stated number of points.

5: The courtier who functions as the judge in the duel between Laertes and Hamlet. OSRIC

10: A servant to Polonius, he is sent to spy on Laertes in Wittenberg. REYNALDO

15: The age of Prince Hamlet. THIRTY

B-17. [30] Identify the American statesman/leader 30-20-10.

30: A leader among the colonists, he was one of the authors of Mourt's Relation.

20: His landmark journal which provided a valuable history of early colonial life was not discovered and published until 1856.

10: Except for five years during which he refused election, he was governor of Plymouth until his death.

William BRADFORD

B-18. [30] Identify the following elements from a brief description FTP each.

a. A reactive silvery-white alkaline-earth metal occurring naturally as celestite, it resembles calcium physically and chemically. It has an atomic weight of 87.6.

STRONTIUM

b. A steel white metal, it is the least dense of the platinum group of metals. With atomic weight 106.4, Fleischmann and Pons claimed that it played a key role in cold fusion.

PALLADIUM

c. It is the only metal besides mercury, cesium, and rubidium which can be liquid near room temperature. Having an atomic weight of 69.72, it readily alloys with most metals.

GALLIUM

B-19. [30] Identify the authors of these science fiction works FTP each.

a. Mephisto in Onyx Harlan ELLISON

b. The Songs of Distant Earth Arthur C. CLARKE

c. Star Maker W. Olaf STAPLEDON

d. The Caves of Steel Isaac ASIMOV

e. The Moon is a Harsh Mistress Robert A. HEINLEIN

f. The Dispossessed Ursula K. LE GUIN

B-20. [30] Answer these questions about Jane Eyre FTP each.

a. The family that Jane originally lives with that casts her out.

REED

b. The girl that Jane befriends at Lowood Academy who later dies of infectious disease. HELEN Burns or Helen BURNS

c. Jane's lover to whose ward she is governess.

Edward ROCHESTER

d. Though her name is Antoinette, what does Rochester call his first wife. BERTHA

e. The name of Rochester's estate which burns down in a fire set by Bertha. THORNFIELD

f. What novel by Jean Rhys is a prequel of sorts to Jane Eyre?

WIDE SARGASSO SEA