

**DSHIT 2002 - Round 10.** Questions by the David Scott Hamilton**Tossups:**

1. This man's victories include capturing Septimania from the Muslims. When Pope Stephen III was pressed by the Longobards under Aistulf, he led an army into Italy and compelled Aistulf to become his vassal. Earlier, with the support of Pope Zacharias, he deposed Childeric III and was elected king in 751. FTP, identify this first king of the Frankish Carolingian dynasty, and father of Charlemagne.

ANSWER: **Pepin III** or **Pepin the Short**

2. Born with the last name Rosenfeld, after reading Freud's *Interpretation of Dreams*, this man was inspired to write an attempt to explain art by using psychoanalytic principles. Later works include *The Myth of the Birth of the Hero* and 1912's *The Incest Motif in Poetry and Saga*, and in that year, he began to edit the *International Journal of Psychoanalysis*. His best-known work, however, caused a break with Freud and his expulsion from the Vienna Psychoanalytic Society. FTP, identify this psychologist and author of *The Trauma of Birth*.

ANSWER: Otto **Rank**

3. First described by Christian DeDuve in the 1950s, diseases associated with this organelle include human inclusion cell disease and Tay-Sachs disease, where a particular enzyme is lacking from them. Their membrane is impermeable to hydrolytic enzymes and contains an ionic pump that maintains a highly acidic internal environment. FTP, identify this organelle that is responsible for the digestion of material in food vacuoles.

ANSWER: **lysosome**

4. This playwright supposedly drowned while swimming off of Piraeus. Writing in a refined Attic style, he produced his first play, *Orge* [OR-GAY], in 321 BC, and won only eight victories at festivals despite writing over 100 plays. Little of his work was known until Lefebvre discovered a papyrus with fragments from four plays in 1906. FTP, identify this supreme author of Greek New Comedy whom Terence closely imitated, whose only complete extant play is the *Dyskolos*, or *Ill-tempered Man*.

ANSWER: **Menander**

5. Receiving water drained from about one-quarter of its continent, if it is regarded as a river, it would be the widest in the world, with a total area of about 13,500 square miles. Meaning "River of Silver," it is technically an estuary of the Paraná, Paraguay, and Uruguay Rivers. FTP, name this tapering intrusion of the Atlantic Ocean, on which lie the South American capitals of Montevideo and Buenos Aires.

ANSWER: **Río de la Plata**

6. Its decline began with the reign of Az-Zahir, who lost most of Syria, and continued under Al-Mustansir and Al-Mustadi. Earlier, Al-Hakim affirmed his own divinity and tried to make Shi'ism the orthodox religion of Egypt. In 968, its first ruler, Al-Muizz, took Egypt and transferred his seat of government to Cairo. FTP, identify this North African dynasty whose rulers claimed descent from the daughter of Mohammed.

ANSWER: **Fatimid** dynasty

7. In 1913, this physicist went to Berlin to work with Hans Geiger, and was interned there during WWI. He established the equivalence of atomic number and atomic charge, and discovered the continuous nature of the energy spectrum. In 1943, he was the leader of the British team working on the Manhattan Project in the US. FTP, identify this physicist who received the 1935 Nobel Prize for his discovery of the neutron.

ANSWER: James **Chadwick**

8. When this woman returned to England at age 23, she married a merchant who died within three years. She became a professional spy for Charles II but received little recognition for it. She began writing to support herself after being imprisoned for debt, starting with *The Forc'd Marriage* in 1670 and other plays like *The Feigned Courtizans* and *The Rover*. Her best-known work, however, is based on her experiences growing up in Surinam and anticipated Rousseau's theory of the noble savage. FTP, identify this author of *Oroonoko*.

ANSWER: Aphra **Behn**

9. While at Mount Holyoke College, a speech by Florence Kelley first sparked her interest in feminism. While a teacher, she visited Hull House, and became secretary of the New York Consumer's League in 1910. After a period on the New York State Industrial Commission, she was appointed to her most important position, in which she helped draft the Social Security Act. FTP, identify this Secretary of Labor under FDR.

ANSWER: Frances **Perkins**

10. The central group of this painting recalls scenes of the Lamentation and from Rubens' *Descent from the Cross*. Painted eleven years after the title event, a kneeling Indian on the left watches the title figure, while men on the right clench their fists in worry. It was innovative since the figures were dressed in contemporary military attire, which many warned the artist was not possible in a successful history painting. FTP, identify this 1770 painting by Benjamin West, portraying a scene from the battle of the Plains of Abraham.

ANSWER: The **Death of General Wolfe**

11. This scientist died in 1930 during a fourth expedition to Greenland. Along with his brother Kurt, he took a 52 ½ hour balloon flight to test the accuracy of a clinometer. Also a professor of meteorology in Graz, he is famous for a 1915 work in which he expounded a theory based on his observations during his travels. FTP, identify this geophysicist and author of **The Origins of Continents and Oceans** who suggested that the continents may have once been joined and later broke apart and drifted.

ANSWER: Alfred **Wegener**

12. Part of their plan is to instigate a German attack on Hawaii on December 4, 1912, and they manage to get 52 members of Congress imprisoned for treason. Fearing the popularity of socialism, the title group of plutocrats conspires to eliminate democracy and terrorize citizens by secret police and military. FTP, identify this 1908 work describing the fall of the US to a fascist dictatorship, written by Jack London.

ANSWER: The **Iron Heel**

13. Jud Wilson, Frank Warfield, Oliver "Ghost" Marcelle, and Sir Richard Lundy on this team were named the "Million Dollar Infield" by the local media, because of their prospective worth, had they been white players. A charter member of the Eastern Colored League in 1923, in 1929 they won the pennant of the American Negro League, but no World Series was held. FTP, name this team, that shares its name with a 1919 MLB scandal.

ANSWER: **Baltimore Black Sox** (accept either)

14. During this period, the *Kojiki*, the oldest extant Japanese book, was written, and the monk Gyogi propagated the concept that Buddhism and Shinto were the same faith. Doko gained power after a clash with Nakamaro, but the period ended after Kammu moved the capital from Nagaoka to Heian. FTP, identify this Japanese period lasting from 710-784, named for the city which was the first permanent capital of Japan.

ANSWER: **Nara** period

15. The worst case running time of this algorithm is order theta of n squared, where n is the number of elements, and a randomized version can be made with the property that no particular input will elicit its worst case behavior. The algorithm starts by partitioning the array of elements into two nonempty subarrays by choosing a pivot element. The two subarrays are then recursively sorted, and then combined into the original array. FTP, identify this speedy sorting algorithm developed by Hoare.

ANSWER: **quicksort**

16. The title character of this work marries Arabella, an unfeeling and animalistic woman, but abandons her and their son. He then falls in love with his cousin Sue, who divorces the teacher Phillotson to be with him. Sue is too guilt-ridden to marry him, however, so they have children out of wedlock, which are killed by Father Time, Arabella's son. FTP, the title character returns to Arabella and dies in what 1895 novel by Thomas Hardy?

ANSWER: **Jude the Obscure**

17. It was convened three years after a domestic chaplain, Anastasius, objected to the title *Theotokos*, or "God-bearer," as applied to Mary. The patriarch of Constantinople defended him, and so strongly emphasized the distinction between the divine and human natures of Christ that many took objection. Cyril, the patriarch of Alexandria, appealed to Pope Celestine I, partly in order to belittle the see of Constantinople. FTP, identify this 431 BC council which ended with the deposition of Nestorius.

ANSWER: Council of **Ephesus**

18. In 1822, he began publishing the newspaper *The Traveller*, and two years later, was attested for distributing birth control literature to the poor in London. His later works include *Three Essays on Religion* and *Considerations on Representative Government*. In 1851, he married Harriet Taylor, whose views helped inspire his *The Subjection of Women*, and an 1859 essay in which he defends the freedoms of the individual. FTP, identify this English philosopher and author of *Utilitarianism* and *On Liberty*.

ANSWER: John Stuart **Mill**

19. The third piece in this composition portrays Sarka, a rebel leader seeking revenge for the infidelity of her lover, while the fifth, Tabor, contains the hymn "Ye Who Are God's Warriors." The first part of this cycle, Vysehrad, is named for the great rock overlooking the Vlatava and describes the great deeds of the past, while the second portrays the rapids of St. John, a peasant wedding, and water spirits as the title river flows through the Bohemian countryside. FTP, identify this cycle of six symphonic poems composed by Bedrich Smetana that conjures up the spirit of his homeland.

ANSWER: Ma Vlast or My Country

20. His godparents were Pauline Bonaparte and Camillo Borghese, and at age 10 he was enrolled at the Military Academy of Turin. He retired from army life at age 21, though, after talking with Anna Schiaffino and Severino Cassio, and published a pamphlet on the Poor Laws in England in 1835. In 1847, along with Cesare Balbo, he established a newspaper, *Il Risorgimento*, and later succeeded D'Azeglio as premier. FTP, identify this Piedmontese statesman who restored Italian nationality with the declaration of Victor Emanuel as king of Italy in 1861.

ANSWER: Count di Cavour (or Camillo Benso)

21. This man's collections of essays include *Reflections on Hanging*, *The Trail of the Dinosaur*, and *The Yogi and the Commissar*. After enlisting in the French Foreign Legion, he joined the Pioneer Corps, experiences that he described in *The Scum of the Earth* and *Arrival and Departure*. In 1983, he committed suicide along with his wife after becoming terminally ill. FTP, identify this author best known for a novel about Nicholas Rubashov, *Darkness at Noon*.

ANSWER: Arthur Koestler

22. The last name's the same. The father published An Attempt to Introduce Studious Youth into the Elements of Pure Mathematics in 1833, and tried to find a proof for Euclid's fifth postulate. His son worked further on the problem and developed a formula relating the angle of parallelism of two lines with a term characterizing the line, and described his new geometry as an appendix to his father's work. FTP, identify these Hungarian mathematicians who worked on Non-Euclidian geometry.

ANSWER: Bolyai

### Bonuses:

1. Identify these early governors of Australia from clues on a 10-5 basis.

a. [10] Governor from 1805-9, he was removed from office as a result of the Rum Rebellion.

[5] In his earlier naval career, he was the commander of the ill-fated *Bounty*.

ANSWER: William Bligh

b. [10] An eminent astronomer, he served as governor from 1821-5 after the recall of Macquarie.

[5] The capital of Queensland was named in his honor.

ANSWER: Sir Thomas Brisbane

c. [10] Succeeding Brisbane, notable events during this man's six year term include the Bushranging Act and the Foundation of Perth.

[5] In 1828, Charles Sturt discovered the river that was named for him.

Answer: Ralph Darling

2. Identify these Internet protocols FTP each.

[10] This connectionless transport-layer protocol is less complex than TCP. It is used for services like "time" and "name."

ANSWER: User Datagram Protocol or UDP

[10] Less safe than the secure shell suite, this protocol allows users to log in to remote computers on the Internet.

ANSWER: TELNET protocol

[10] The delivery of mail messages is defined by this protocol, typically served on port 25.

ANSWER: Simple Mail Transfer Protocol or SMTP (accept Enhanced Simple Mail Transfer Protocol or ESTMP)

3. Identify these Robert Browning poems from descriptions FTP each.

[10] The title character is a girl who works all year, except for New Year's Day, at a silk mill in Asolo. Her songs alter the destinies of those who overhear her, and it contains the famous lines, "God's in His Heaven / All's right with the world!"

ANSWER: Pippa Passes

[10] The speaker is the duke of Ferrara, who shows a picture of his previous wife to a man negotiating a marriage between his daughter and the duke. The duke implies that his previous wife was murdered for not appreciating her position.

ANSWER: My Last Duchess

[10] The title character is the husband of Laura, a Venetian lady. After being taken captive at Troy, he joins a band of pirates, grows right, and discovers his wife again at a carnival ball, where they are reunited.

ANSWER: Beppo

4. Identify these villains whom Theseus encountered, from descriptions FTP each.

[10] At Epidaurus, Theseus killed this son of Hephaestus, nicknamed "The Clubber," as he liked to bash passers-by with a big iron club. Theseus took the club, killed him with it, and kept it for himself.

ANSWER: Periphetes

[10] At Megara, he met this man who made travelers bend over to wash his feet, then kicked them down a steep slope where a giant turtle would devour them. Theseus forced this man to wash his feet, and kicked him down the slope.

ANSWER: Sciron

[10] This man would offer travelers a place to sleep at night in one of two beds. He would then saw off or stretch the limbs of the travelers in order to fit the particular bed. As you probably guessed, Theseus forced him to fit into one of his own beds.

ANSWER: Procrustes or Damastes or Polypemon

5. Identify these terms from organic chemistry FTP each.

[10] Members of this group of compounds are prepared by the oxidation of primary alcohols.

ANSWER: aldehydes

[10] These cyclic ethers contain oxygen atoms in their molecules as part of a three-membered ring.

ANSWER: epoxides

[10] Formed by the oxidation of secondary alcohols, these compounds undergo condensation reactions to yield oximes and hydrazones.

ANSWER: ketones

6. Answer these questions about the latter part of the Great Northern War FTP each.

[10] After this decisive 1709 battle, Charles XII fled to Turkey when his army was completely defeated by Peter the Great.

ANSWER: Poltava

[10] Two years later, Peter was surrounded by a Turkish army at this river and was obliged to cede Azov and allow Charles XII to return to Sweden.

ANSWER: Pruth

[10] The war finally ended in 1721 by this treaty.

ANSWER: Nystadt

7. Identify these Moliere plays from a brief description FTP each.

[10] The title character worms his way into the household of Orgon, and is almost successful in taking over the household, but is tricked by Orgon's wife Elmire. Although he tries to evict the family since the house is now in his name, the king intervenes and he is arrested.

ANSWER: Le Tartuffe

[10] Moliere's last play, the title character is the hypochondriac Argan, who tests his second wife's love and proves his daughter's loyalty by feigning death.

ANSWER: The Imaginary Invalid or Le Malade imaginaire

[10] In this verse comedy, Arnolphe arranges for Agnes to be raised in total innocence, but Horace wins her affection. In the end it turns out that Agnes' father and Horace's father arranged for their children to marry.

ANSWER: L'Ecole des femmes or The School for Wives

8. FTPE, name these Nevada cities:

[10] Billing itself the "Biggest Little City in the World," on the western edge of the state, it's Nevada's largest city outside the Las Vegas metro area.

ANSWER: Reno

[10] Southeast of Reno, the seat of Storey County, it's now only home to 900 people, but in 1859 was home to three-fourths of Nevada's population when it became a booming mining camp after the discovery of the Comstock Lode nearby.

ANSWER: Virginia City

[10] The seat of Lander County, the Washington Post recently named this city its 2001 "Armpit of America," and fittingly, the city marks its territory with a large "B.M." carved into the Shoshone Range.

ANSWER: Battle Mountain

9. Identify the authors of these Gothic novels FTP each.

[10] *Vathek*

ANS: William **Beckford**

[10] *The Mysteries of Udolpho*

ANS: Ann **Radcliffe**

[10] *The Castle of Otranto*

ANS: Horace **Walpole**

10. Identify these theorems from mathematics FTP each.

[10] The assertion that every positive integer is expressible as the sum of at most four square numbers was finally proven by the French mathematician for whom it is named.

ANSWER: **Lagrange's** theorem

[10] Named for a British mathematician but first proved by Lagrange, it states that a natural number  $n$  is prime if and only if  $n$  divides  $1$  plus  $n$  minus  $1$  factorial.

ANSWER: **Wilson's** theorem

[10] At the age of 16, this Frenchman proved a mystic hexagram theorem which states that the points of intersection of the three pairs of opposite sides of a hexagon which is inscribed in a conic are collinear.

ANSWER: Blaise **Pascal**

11. Identify these US tariffs FTP each.

[10] Signed in spite of protests from 1000 economists, this 1930 tariff led to widespread reprisals and retaliations from other countries.

ANSWER: **Smoot-Hawley** Tariff

[10] Also containing a 2 percent tax on incomes over \$4000, this 1894 tariff became law without Cleveland's signature.

ANSWER: **Wilson-Gorman** Tariff

[10] This July 24, 1897 tariff was designed to increase protection rather than revenue. It increased duties and provided for reciprocity treaties.

ANSWER: **Dingley** Tariff

12. Identify these confessional poets from works on a 10-5 basis.

a. [10] *The Dispossessed, The Freedom of the Poet*

[5] *77 Dream Songs*

ANSWER: John **Berryman**

b. [10] *The Awful Rowing Toward God, Live or Die, 45 Mercy Street*

[5] *To Bedlam and Part Way Back, The Death Notebooks*

ANSWER: Anne **Sexton**

c. [10] *Land of Unlikeness, Life Studies, For the Union Dead*

[5] *Lord Weary's Castle, The Dolphin*

ANSWER: Robert Traill Spense **Lowell, Jr.**

13. Identify these "M" terms from biology FTP each.

[10] This is the term for the free-swimming stage in the life cycle of a jellyfish.

ANSWER: **medusa**

[10] From the Greek for "fungus," it is the mass of hyphae forming the body of a fungus.

ANSWER: **mycelium**

[10] This form of white blood cell ingests material like viruses and bacteria bound by circulating antibodies.

ANSWER: **macrophage**

14. Identify these 20<sup>th</sup> century religious thinkers from works FTP each.

[10] *The Seven Storey Mountain*

ANSWER: Thomas **Merton**

[10] *Church Dogmatics and Knowledge of God and the Service of God*

ANSWER: Karl **Barth**

[10] *The Cost of Discipleship, Act and Being, Sanctorum Communio, and Prisoner of God: Letters and Papers from Prison*

ANSWER: Dietrich **Bonhoeffer**

15. Answer these questions about Irish unrest for 15P each.

[15] In 1828, this leader of the Catholic emancipation movement was elected to parliament, bringing a crisis to the Wellington cabinet because of the Test Act.

ANSWER: Daniel **O'Connell**

[15] Although founded by Isaac Butt, the dominant figure of the Irish Home Rule party was this man, elected to parliament in 1875. His downfall came after news of his affair with Katherine O'Shea.

ANSWER: Charles Stewart **Parnell**

16. Identify these ancient Greek sculptors, none of whom is Phidias, from their works FTP each.

[10] *Discobolus* and a big-ass bronze cow

ANS: **Myron**

[10] *Doryphorus* and *Diadumenus*

ANS: **Polyclitus** or **Polykleitos**

[10] *Hermes Carrying the Infant Dionysus*

ANS: **Praxiteles**

17. Identify these effects from physics 5-10-15.

[5] Named after its Dutch discoverer, it is the splitting of optical lines into several closely-spaced components when the source of light is placed in a strong magnetic field.

ANSWER: **Zeeman** effect

[10] Discovered in 1821, if wires of two different metals are joined to form a closed circuit and the junctions are maintained at two different temperatures, then an electric current will flow around the circuit.

ANSWER: **Seebeck** effect

[15] This is the splitting of atomic spectral lines as a result of an externally applied electric field.

ANSWER: **Stark** effect

18. 30-20-10 Name the author from works.

[30] *Burnt Water* and *A Change of Skin*

[20] *Where the Air is Clear* and *The Old Gringo*

[10] *The Death of Artemio Cruz*

ANSWER: Carlos **Fuentes**

19. Identify these operatic one-hit wonders from their big work on a 5-10-15 basis.

[5] *La Gioconda*

ANS: Amilcare **Ponchielli**

[10] *Cavalleria Rusticana*

ANS: Pietro **Mascagni**

[15] *La Wally*

ANS: Alfredo **Catalani**

20. Identify these women who vexed the Romans for 15 points each.

[15] This queen of Palmyra became the wife of Odenathus; upon his death, she conquered Egypt and Asia Minor before being defeated by Aurelian in 272. She was spared after passing the blame to her secretary Longinus.

ANSWER: **Zenobia**

[15] This queen of the Iceni led a revolt in 60 AD, sacking London and other colonies until the forces of Paulinus restored order.

ANSWER: **Boudicca** or **Boadicea**

21. Identify these 19<sup>th</sup> century economists from clues for 15P each.

[10] The concepts of elasticity, quasi-rent, and time analysis were devised by this Englishman, the author of 1890's *Principles of Economics*.

ANSWER: Alfred **Marshall**

[10] A disciple of Adam Smith, this French economist's law can be paraphrased as "supply creates its own demand."

ANSWER: Jean Baptiste **Say**