Warm-Ups and Tossups

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1. What message sent to Heinrich von Eckardt, but intercepted by the British, promised Arizona to Mexico if it allied with Germany in World War I?
answer: Zimmermann telegram (or Zimmermann note)
<252164>
2. The Stone City Art Colony was co-founded by what regionalist who painted his sister alone in Portrait of Nan and with his dentist in American Gothic?
answer: Grant (DeVolson) Wood
<203188>
3. Bridalveil Fall and a namesake 2,425-foot waterfall are in which California national park also home to the granite monoliths El Capitan and Half Dome?
answer: Yosemite National Park
<235276>
4. Cesium has a value of 0.8 - the lowest of any stable element - on the Pauling scale for what measure of how strongly atoms attract electrons in a bond?
answer: (Pauling) electronegativity (accept word forms)
5. What English king succeeded Edward the Confessor and won the Battle of Stamford Bridge a month before being killed by the Normans at Hastings in 1066?
answer: Harold II or Harold Godwinson (prompt on "Harold" or "Godwinson")
6. An October 1871 fire ravaged what city that is home to Millennium Park, lies on Lake Michigan, and contains the Willis Tower, once the Sears Tower?
answer: Chicago, Illinois
7. Phlebas [FLEE-bus] the Phoenician appears in "Death by Water," the fourth section of what poem that calls April "the cruellest month," a work by T. S. Eliot?
answer: The Waste Land (accept Death by Water early)
8. Pencil and paper ready. How many different shirt-tie-slacks combinations can Bryan wear if he has 2 shirts, 6 ties, and 4 pairs of slacks?
answer: 48 combinations [ $2 \times 6 \times 4=12 \times 4=48$ ]
<252509>
9. What army officer quelled John Brown's rebellion at Harpers Ferry, led the Army of Northern Virginia at Gettysburg, and surrendered at Appomattox?
answer: Robert E(dward) Lee
<252214>
10. Which American novelist created the mentally handicapped characters of Jim Bond and Benjy Compson in Absalom, Absalom! and The Sound and the Fury?
answer: William Faulkner (or William Cuthbert Falkner)
<214963>
11. Athletes Pete Maravich, JaMarcus Russell, and Shaquille O'Neal played for which SEC team - where Les Miles coaches football - with a live tiger mascot?
answer: Louisiana State University or LSU
<227885>
12. What pyroclastic [PYE-roh-KLASS-tik], noncrystalline material used in surgical scalpels and ancient arrowheads is typically found as a black volcanic glass?
answer: obsidian

## Tossups with Bonuses

13. This deity tried to make Demophon immortal by burning his mortal nature away. She was worshipped in the Eleusinian [EL-yoo-SIN-ee-un] mysteries, and wandered the earth searching for her daughter after (*) Hades abducted Persephone [pur-SEH-fuh-nee]. For 10 points - name this agriculture goddess, the Greek equivalent of Ceres ["series"].
answer: Demeter (accept Ceres before "Hades")
<267464>
14. Pencil and paper ready. A merry-go-round of unknown radius makes one revolution every 20 seconds; Jim travels a distance of 60 pi in one minute while sitting on the outside edge. Remembering that that 60 pi represents three revolutions, Jim computes ( ${ }^{*}$ ) -for 10 points - what radius for the merry-go-round?
answer: $\underline{10}$ [Since the merry-go-round makes $60 / 20=3$ revolutions per minute, its circumference is $60 \mathrm{pi} / 3=20 \mathrm{pi}$. Since $C=2 \times \mathrm{pi} \times r, 20 \mathrm{pi}=2 \mathrm{pi} \times r$, and $r=20 \mathrm{pi} / 2 \mathrm{pi}=10$ ]
<271105>
15. Passages in this waterway include the Swinge, between the islands of Burhou and Alderney, and the Great Russel, between Herm and Sark. Jersey and (*) Guernsey [GURN-zee] are other islands, while the White Cliffs of Dover lie on its shore. France and Britain are separated by - for 10 points - what "channel"?
answer: English Channel (or La Manche; prompt on "Channel")
<267390>
16. This author wrote about Peter Martin in his novel The Town and the City. Another novel features Tom Saybrook and Carlo Marx, the latter of which represents fellow writer (*) Allen Ginsberg. For 10 points name this beatnik author who described a cross-country road trip in On the Road.
answer: (Jean-Louis) Jack Kerouac
<267131>
17. This native of Nice ["niece"] offered to command the Union forces if slavery were abolished. Earlier, he had unsuccessfully defended Rome against French forces in 1849; he then led the Hunters of the Alps in the Second War of (*) Italian Independence. For 10 points - name this leader of the Redshirts.
answer: Giuseppe Garibaldi
<267165>
18. First organized in response to the American Recovery and Reinvestment Act, this movement includes a namesake "Express" bus tour and a "Nation" that ran a 2010 convention featuring ( ${ }^{*}$ ) Sarah Palin. For 10 points - identify this anti-tax movement named for a 1773 event in Boston Harbor.
answer: Tea Party movement (accept teabagger or equivalents)
19. This quantity, which all spontaneous reactions reduce, reaches its minimum when a system achieves equilibrium, and can be defined as enthalpy minus temperature times $\left(^{*}\right)$ entropy. For 10 points-identify this thermodynamic quantity, an energy named for a Yale chemist and denoted $G$.
answer: Gibbs free energy (accept free energy; don't prompt on "energy" after it's mentioned)
<267436>
20. This man's play Hernani [air-NAH-nee] was turned into an opera by Giuseppe Verdi. His novels include Toilers of the Sea and another featuring Claude Frollo and the gypsy ( ${ }^{*}$ ) Esmeralda. For 10 points - name this French author who created Quasimodo in The Hunchback of Notre-Dame [noh-TRUH dahm].
answer: Victor(-Marie) Hugo
<267158>
21. The highest peak in the Sulaiman Mountains lies in this nation's Balochistan province. The Durand Line forms one of its borders, and it shares the world's second highest peak, (*) K2, with China. For 10 points what Asian country sees the Indus River flow past its most populous city, Karachi?
answer: Islamic Republic of Pakistan
<267173>
22. In this election, Thomas Pinckney came in third, resulting in a president and vice president from different parties. It was the last election won by a Federalist after George Washington refused a (*) third term. For 10 points - name this election that saw John Adams defeat Thomas Jefferson.
answer: Election of $\underline{1796}$
<267229>
23. Two characters on this show were accidentally blown up by dynamite from the Black Rock, while the priest Eko was killed by the ( ${ }^{*}$ ) smoke monster. Jacob is replaced by Hurley at the end of -for 10 points - what series created by J. J. Abrams, a drama about the survivors of Oceanic Flight 815?
answer: Lost
<266914>
24. Richard Feynman showed why a proposed ratchet couldn't extract work from this phenomenon. It is named for a 19th-century botanist who suggested that invisibly tiny particles were colliding with the (*) pollen grains he was studying. For 10 points - name this type of random "motion."
answer: Brownian motion
<267221>
25. Manhattan's Audubon Ballroom was the site of this Omaha native's assassination by Talmadge Hayer and others in February (*) 1965. The surname "Little" was discarded by - for 10 points - what member of the Nation of Islam who symbolized a loss of identity by replacing it with a single letter?
answer: Malcolm X or El-Hajj Malik el-Shabazz (or Malcolm Little early)
<267366>
26. This religion's texts include discourses called agamas found in the Pali Canon. A later text, hidden for centuries among the serpentine Nagas, is central to its ( ${ }^{*}$ ) "Mahayana" [MAH-hah-YAH-nah] tradition. The Lotus Sutra is from - for 10 points - what South Asian religion founded by Siddhartha Gautama?
answer: Buddhism or Buddhist religion (accept Theravada Buddhism before "Nagas")
<266891>
27. Joseph Caventou [kah-ven-too] and Pierre Pelletier [pel-tee-ay] isolated this pigment in 1817; its a, b, c1, and c2 forms each contain a porphyrin ring surrounding a central atom of ( ${ }^{*}$ ) magnesium. For 10 points - name this molecule, found in all cyanobacteria, algae, and plants, that gives leaves their green color.
answer: chlorophyll(s)
<267200>
28. Glenn Gould popularized a set of 30 variations by this German composer who also wrote a set of six instrumental works for a Prussian margrave. The (*) Goldberg Variations are by - for 10 points - what baroque composer of The Well-Tempered Clavier [kluh-FEER] and the Brandenburg Concertos?
answer: J(ohann) S(ebastian) Bach (accept Goldberg Variations until "composer")
29. This man, who died in exile in Bithynia [bih-THIH-nee-ah], ambushed Flaminius to win the Battle of Lake Trasimeno [TRAH-zee-MAY-noh]. He was less successful at Zama, where his forces were beaten by Scipio $\left(^{*}\right)$ Africanus, ending the Second Punic War. For 10 points - name this Carthaginian general who led elephants over the Alps.
answer: Hannibal (Barca)
30. In August 2010 this nation's Electoral Commission approved Jacques-Édouard Alexis - who was sacked after its 2008 Food Riots - to run for president, but denied musician (*) Wyclef Jean [WYE-klef ZHAHN]. The new president will deal with earthquake relief in-for 10 points - what Caribbean nation?
answer: Republic of Haiti
<267731>
31. In this film, Ed Tom Bell recalls two dreams about his father. Tommy Lee Jones' sheriff pursues Josh Brolin's Llewelyn ["lew"-"ellen"] Moss, who found two million dollars at a failed drug deal. (*) Javier Bardem's Anton Chigurh [shih-gur] appears in-for 10 points - what 2007 Oscar-winning Coen brothers movie?
answer: No Country for Old Men
<268162>
32. In one work by this author, a group puts on the play Lovers' Vows when Sir Thomas Bertram is away from the title estate. In addition to (*) Mansfield Park, she wrote about the "tall, dark, and handsome" Mr. Darcy and Elizabeth Bennet. For 10 points - name this author of Pride and Prejudice.
answer: Jane Austen

## 2010-11 MNHSQB Set A Packet 1

## Bonuses

## National Academic Quiz Tournaments, LLC

1. For 10 points each - name these cultures of the pre-Columbian Americas:
A. Tikal [tee-KAHL] and Chichen Itzá [chee-CHEN eet-SAH] were pyramid sites built by this Mesoamerican people, whose Quiché subgroup created the epic Popol Vuh.
answer: Mayas (or Mayan civilization)
B. This older Mesoamerican culture crafted giant stone heads such as the ten found at San Lorenzo.
answer: Olmec civilization or Olmecs
C. The Navajo word for "ancient ones" names this group of the American Southwest that built cliff dwellings at Mesa Verde.
answer: Anasazi or Ancient Pueblo Peoples (or Ancestral Puebloans; prompt on "Pueblo" or "Pueblans")
2. For 10 points each - name these explorers of Africa:
A. This Portuguese navigator sailed around the Cape of Good Hope in 1488, nine years before Vasco da Gama.
answer: Bartolomeu Dias [bar-TOH-loh-MAY-oo dee-AHSH]
B. This Scottish missionary and doctor lost contact with the outside world while traveling from the Zambezi toward the Nile.
answer: David Livingstone
C. The New York Herald sent this man to search for Livingstone; he found him - he presumed - at Ujiji [oo-JEE-jee] in 1871.
answer: Henry Morton Stanley (or John Rowlands)
3. For 10 points each - name these Peanuts characters:
A. At least once a year she yanks the football away from a charging Charlie Brown.
answer: Lucy Van Pelt (prompt on "Van Pelt")
B. Every Halloween night, Lucy's brother Linus is disappointed by the failure of this character to arrive.
answer: (the) Great Pumpkin (prompt on "pumpkin")
C. Linus idolized this schoolteacher who eventually married and was replaced by Miss Halverson.
answer: Miss Othmar (or Mrs. Hagemeyer)
4. Pencil and paper ready. For 10 points each - convert the decimal number 26 into . . .
A. Hexadecimal
answer: $\underline{1 \mathrm{~A}}$ ["one $\left.\mathrm{A}^{\prime \prime}\right][26=(16 \times 1)+(1 \times 10)]$
B. Base 3
answer: $\underline{222}$ ["two two two"] [26 is one less than 27 , which is 3 3, so 26 is one less than the base 3 number 1000.]
C. Binary
answer: $\underline{11010}$ ["one one zero one zero"] [26 $=16+8+0+2+0]$
5. The basic Islamic declaration of belief begins, "There is no god but Allah." For 10 points each -
A. It finishes by asserting that this founder of Islam "is the messenger of God."
answer: Muhammad
B. That declaration is one of this quintet of duties required of every Muslim, which also includes daylight fasting during Ramadan.
answer: Five Pillars of Islam
C. This is the Arabic name of that creed.
answer: shahada (accept kalima)
6. The "Ironsides" cavalry was victorious at the Battle of Naseby [NAYZ-bee]. For 10 points each -
A. Name the Puritan commander of that cavalry who ruled England as Lord Protector from 1653 to 1658.
answer: Oliver Cromwell
B. Naseby was a defeat for this Stuart king beheaded in 1649.
answer: Charles I of England (or Charles I Stuart; prompt on "Charles")
C. Naseby was the first victory for this innovative Roundhead army that would later be led by Cromwell.
answer: New Model Army
7. Harold Urey won a Nobel Prize for discovering one of these for hydrogen. For 10 points each -
A. Give this term for atoms of the same element that have different mass numbers.
answer: isotopes
B. This isotope of carbon, with a half-life of about 5,700 years, is used to date artifacts.
answer: carbon-14 or C-14 or ${ }^{14} \mathrm{C}$
C. This isotope is bombarded with neutrons to form plutonium-239, the most common isotope used in nuclear weapons.
answer: uranium-238 or U-238 or $\underline{238 \mathrm{U}}$ (prompt on "uranium" or " 238 ")
8. For 10 points each - give the following about things named after months:
A. The October Revolution brought the Bolsheviks to power in this country in 1917.
answer: Russia or Russian Empire (accept Soviet Union or USSR or Union of Soviet Socialist Republics)
B. The group Black September murdered eleven Israeli athletes and coaches at the 1972 Summer Olympics in this German city.
answer: Munich, West Germany (or München)
C. This Nobel laureate from South Africa wrote July's People, in which the title character is a servant of Bam and Maureen Smales.
answer: Nadine Gordimer [nuh-DEEN GOR-dih-mur]
9. For 10 points each - name these American authors inspired by racial issues:
A. This woman won the Presidential Medal of Freedom for her novel To Kill a Mockingbird.
answer: (Nelle) Harper Lee
B. This Oklahoma native's Invisible Man is narrated by an unnamed African-American. His second novel, Juneteenth, was published posthumously.
answer: Ralph (Waldo) Ellison
C. This author of "A Good Man Is Hard to Find" often dealt with racial themes, such as the bigotry that strains a mother-son relationship in the story "Everything That Rises Must Converge."
answer: (Mary) Flannery O'Connor
10. For 10 points each - answer these questions about nerves:
A. Nerves are made of these cells, whose parts include axons and dendrites.
answer: neurons
B. Which cranial nerve, the first of twelve, transmits the sense of smell?
answer: olfactory nerve(s)
C. What longest, widest nerve in the human body begins in the lower back and extends down the lower leg?
answer: sciatic [sye-AA-tik] nerve(s) (or ischiatic nerve(s))
11. For 10 points each - name these superlative bits of South American geography:
A. This is the world's largest rain forest, named for the river whose basin it covers.
answer: Amazon Rain Forest (accept Amazonia or Amazon Jungle)
B. This is the world's longest non-oceanic mountain range, which runs down the continent's western edge. answer: Andes Mountains
C. This is the world's highest waterfall, named for the pilot who discovered it in Venezuela.
answer: Angel Falls [named for American aviator Jimmie Angel]
12. For 10 points each - name these authors from South America:
A. This Nobel Prize-winning Colombian is best known for his epic novel about the Buendía [bwen-DEE-uh] family, One Hundred Years of Solitude.
answer: Gabriel García Márquez (prompt on partial answer)
B. This Argentine author wrote fantastic stories like "The Garden of Forking Paths" and "The Library of Babel." answer: Jorge Luis Borges [HOR-hay loo-EESS BOR-hayss]
C. This author of such novels as Aunt Julia and the Scriptwriter and Conversation in the Cathedral ran for the presidency of Peru in 1990. He won the Nobel Prize in 2010.
answer: Mario Vargas Llosa [YOH-suh] (prompt on partial answer)
13. In April 2010 the Deepwater Horizon rig was at the center of a massive oil spill. For 10 points each -
A. This occurred in what body of water?
answer: Gulf of Mexico
B. The Transocean company operated the oilrig under a lease from what company responsible for funding the cleanup?
answer: BP plc (accept British Petroleum)
C. What current Interior secretary, a former Colorado senator, has helped oversee the cleanup efforts?
answer: Ken(neth Lee) Salazar
<267255>
14. The Long March was led by Zhou Enlai [joh en-lye] and another man. For 10 points each -
A. Name that future chairman of the Chinese Communist Party who ruled China from 1949 until his 1976 death. answer: Mao Zedong (or Mao Tse-tung)
B. During the Chinese Civil War, Mao's forces defeated those loyal to this man, who met with Churchill and Roosevelt at the Cairo Conference.
answer: Chiang Kai-shek (or Jiang Jieshi)
C. Chiang Kai-shek was a leader of this Chinese nationalist party that ruled Taiwan as a one-party state until the 1980s.
answer: Kuomintang [KWOH-min-TANG] (or Guomindang or KMT)
15. For 10 points each - give the following about a numerical sequence:
A. This sequence's namesake used it to describe the population growth of rabbits. Each term is the sum of the two preceding ones, and the first five terms are 1, 1, 2, 3, and 5.
answer: Fibonacci [FIH-buh-NAH-chee] sequence
B. The ratio of two consecutive Fibonacci numbers approaches this number represented by lowercase phi. answer: golden ratio or golden mean or golden proportion
C. This sequence generates terms the same way as the Fibonacci, but its first two terms are 2 and 1 instead of 1 and 1.
answer: Lucas sequence (or Lucas numbers)
<267531>
16. For 10 points each — name these 19th-century French painters:
A. This Neoclassical artist of Oath of the Horatii [huh-RAY-shee-eye] and The Death of Socrates also painted several portraits of Napoleon.
answer: Jacques-Louis David [zhahk-loo-wee dah-veed]
B. This Romantic painter is best known for 1830's Liberty Leading the People.
answer: (Ferdinand-Victor-)Eugène Delacroix [duh-luh-kwah]
C. He moved to Provence [proh-vahnce] in the 1870s, where he painted The Riaux [ree-oh] Valley near L'Estaque [lesstahk]. He also created numerous depictions of Mont Sainte-Victoire [mawn sant-veek-twar].
answer: Paul Cézanne [say-zahn]
<267940>
17. Many of William Shakespeare's plays include elements that are out of their proper time. For 10 points each-
A. Give the Greek-derived term for these literary errors, such as the wearing of Elizabethan doublets by Romans. answer: anachronisms (accept word forms)
B. The title Danish prince of this play is represented as attending the University of Wittenberg, which wasn't founded until centuries later.
answer: (The Tragedy of) Hamlet(, Prince of Denmark)
C. In Act II, scene 1 of this play, a clock anachronistically strikes three as the conspirators discuss the title character. answer: (The Tragedy of) Julius Caesar
<267323>
18. For 10 points each - answer these questions about the U.S. government's Missile Defense Agency, or MDA:
A. The Strategic Defense Initiative, a Reagan-era precursor to the MDA, was popularly known by what name taken from a 1977 film?
answer: Star Wars
B. The MDA is concerned about what nation's recent testing of the Taepodong-2 [TAY-poh-dohng "two"] missile, which can theoretically reach the continental U.S.?
answer: North Korea (or Democratic People's Republic of Korea or DPRK; prompt on "Korea"; do not accept "Republic of Korea")
C. In May 2010 what country saw its town of Morag, close to the Kaliningrad oblast border, become home to a U.S. Patriot missile battery?
answer: Republic of Poland
19. One fictitious force is named from the Latin for "center fleeing." For 10 points each -
A. Name that apparent outward force felt by an object traveling a circular path.
answer: centrifugal force
B. In contrast, this term is applied to any real force that holds an object on a circular path. It must point radially inward.
answer: centripetal force
C. This is the magnitude, in newtons, of the centripetal force on a 2-kilogram object moving at 3 meters per second around a circular path of radius 2 meters.
answer: $\underline{9}$ newtons $\left[F=m v^{2} / r=2 \times 3^{2} / 2=9\right]$
20. One Cabinet department was created in 1965. For 10 points each-
A. Name that department currently headed by Shaun Donovan that oversees the Federal Housing Administration. answer: Department of Housing and Urban Development or HUD
B. This president signed the legislation creating the Department of Housing and Urban Development as part of his "Great Society."
answer: Lyndon B(aines) Johnson (accept LBJ; prompt on "Johnson")
C. This first HUD secretary became the first African-American Cabinet member in 1966. answer: Robert C(lifton) Weaver

# 2010-11 MNHSQB Set A Packet 1 

## Lightning Rounds

## National Academic Quiz Tournaments, LLC

1. Historical baseball players. What was the primary position played by these members of the baseball Hall of Fame?
A. Ozzie Smith
answer: shortstop
B. Yogi Berra
answer: catcher
C. Mike Schmidt
answer: third base(man)
D. Tom Seaver
answer: pitcher
E. Lou Gehrig
answer: first base(man)
F. Ryne Sandberg
answer: second base(man)
G. Willie Mays
answer: centerfielder (prompt on "outfield" or "outfielder")
H. Bob Gibson
answer: pitcher
I. Carlton Fisk
answer: catcher
J. Honus Wagner
answer: shortstop
2. Scientific units. Which physical quantity, like distance or energy, would be measured in . . .
A. Kilograms?
answer: mass (do not accept "weight")
B. Pascals?
answer: pressure (accept atmospheric pressure)
C. Kilogram-meters per second?
answer: (linear) momentum (or impulse)
D. Meters per second per second?
answer: acceleration (or gravitational potential; accept gravity; do not accept "gravitational force")
E. Ohms?
answer: (electrical) resistance (do not accept "resistivity")
F. Farads [FAIR-udz]?
answer: capacitance
G. Radians per second?
answer: angular velocity or angular speed
H. Joules per kelvin?
answer: entropy (or heat capacity)
I. Joules per second?
answer: power (do not accept "wattage")
J. Amperes?
answer: (electrical) current
3. Answers that start with "M-O-N." Name these things that start with the letters "M-O-N":
A. Country ruled by the Grimaldi dynasty
answer: Principality of Monaco
B. Singular, aristocratic, wire-ringed eyeglass
answer: monocle
C. French Painter of Haystacks and Rouen Cathedral
answer: (Oscar-)Claude Monet [moh-nay] (do not accept "Manet")
D. Second-most populous city in Canada
answer: Montreal
E. Belief in only one god
answer: monotheism (accept word forms)
F. Building on the back of a nickel
answer: Monticello
G. Union ironclad that defeated the Merrimack
answer: USS Monitor
H. French brothers who invented the hot-air balloon
answer: Montgolfier [mawn-gawl-fee-ay] brothers (or Joseph-Michel and Jacques-Étienne Montgolfier)
I. Rikki-Tikki-Tavi is one of these animals
answer: mongooses (or mongeese)
J. Genghis Khan's ethnicity
answer: Mongol (accept Mongolian)
