

1994 Heinrich Bowl  
Question Packet 13

1. His mother was consumed to ashes by Zeus, but he took from her charred remains the unborn child and sewed it up within his own thigh until it reached maturity, perhaps the reason that he is the only god who was born of a mortal woman. For 10 points, identify this son of Zeus and Semele, the Greek god of wine.

Answer: Dionysus

2. It is a rare bacterial disease causing characteristic skin pustules and lung disease, and spores responsible for it may be picked up from infected animals or bone meal. It was the first disease in which bacteria were shown to be causative, and it had one of the earliest vaccines, developed by Pasteur. For 10 points, identify this disease first studied in sheep.

Answer: anthrax

3. He became an missionary to the Indians in Stockbridge after the townspeople of Northampton made him leave. This, however, came after 30 years, in which time he delivered such sermons as A Faithful Narrative of the Surprising Work of God. For 10 points, identify this Puritan preacher living from 1703 to 1758, whose most famous sermon is Sinners in the Hands of an Angry God.

Answer: Jonathan Edwards

4. This American railroad builder, politician, and philanthropist was a founder and president of Central Pacific RR, and also president of the Southern Pacific Co. From 1885 to 1893 he served as a US Senator from California. For 10 points, identify this man who gave his name to a prominent California university.

Answer: Leland Stanford

5. Born in 1477, this Venetian Renaissance painter's less well known works include The Judgement of Solomon, The Fugger Youth, Pastoral Symphony and Epiphany. For 10 points, identify this painter of The Tempest, The Three Philosophers, and Sleeping Venus.

Answer: Giorgio Giorgione

6. His Moralia, dialogues and essays on ethical, literary, and historical subjects, have great charm, but his greatest work is his 46 paired Greek and Roman biographies and 4 single biographies. For 10 points, identify this influential Greek author of Parallel Lives.

Answer: Plutarch

7. This sailor learned his craft in Portugal, and in 1493 set sail with 17 ships, discovering Puerto Rico and the Leeward Islands, and founding a colony on Hispaniola. Five years later he explored Venezuela, discovering that it was a continent, and, because of disreputable conditions in Hispaniola, was replaced as governor in 1500 and returned to Spain in chains. For 10 points, identify this sailor who on his first voyage reached Watling Island in October 1492.

Answer: Christopher Columbus

8. It caused riots in NY, Boston, and Chicago. Jane Addams and the president of Harvard wrote letters against it. President Wilson said, "It is like writing history with lightning." It had been budgeted at an unheard of \$100,000 and cost an equally unheard of \$2 a head to see. For 10 points, identify this popular and groundbreaking 1915 film directed by D. W. Griffith.

Answer: The Birth of a Nation

9. The physical principles upon which it is based are the first two laws of motion. One of these objects arranged to swing directly over either of the earth's poles would continue its swing in a fixed plane while the earth turned beneath it, making one revolution in a sidereal day. For 10 points, identify this experiment set up to offer visible proof of the earth's rotation.

Answer: Foucault's pendulum

10. Based on data compiled in England between 1861 and 1957, it held that when inflation goes down, unemployment goes up and vice versa. For 10 points, identify this economic curve which lost significance with the onset of stagflation.

Answer: Phillips Curve

11. This act was sponsored by the Oregon representative and Utah senator for whom it is named, and resulted in retaliatory tariffs from other nations that caused a sharp decline in US foreign trade. For 10 points, identify this 1930 tariff that raised rates to their highest point in history.

Answer: Hawley-Smoot Tariff

12. Its volume is greatly increased by the Snake river and other tributaries, and it has numerous dams, including the Grand Coulee. For 10 points, identify this US and Canadian River which forms the boundary between Washington and Oregon.

Answer: Columbia River

13. One of the greatest mathematicians of his age, he enlarged the field of mathematical physics by research on the theory of functions and did notable work on differential equations and astronomical theory of orbits. For 10 points, identify this French mathematician and physicist whose cousin Raymond was French president during the 1920s.

Answer: Jules Henri Poincare

14. This man wrote several of his poetic works for his wife Elizabeth Boyle, and he was known as a consummate artist in language, melody, and verse technique. For 10 points, identify this 16th century English author of Complaints, Fowre Hymnes, The Shepherd's Calendar, and The Fairy Queen.

Answer: Edmund Spenser

15. Known as the "Lady of the Lamp," she was an English hospital administrator and reformer of nurse's training. For 10 points, identify this woman who organized hospitals at Scutari and Balaklava in the Crimean War.

Answer: Florence Nightingale

16. This city is the busiest port in West Africa, serving countries such as Mali and Mauritania. It became the capital of French West Africa in 1902 and was occupied by US forces in WWII. For 10 points, identify this city on the Cape Verde Peninsula, the capital and largest city of Senegal.

Answer: Dakar

17. Made mandatory in 1549 by the Act of Uniformity, it was alternately suppressed and modified in following years. A modern version was adopted in 1928. For 10 points, identify this book compiled by Thomas Cranmer which presented selected and revised versions of Catholic liturgies in English.

Answer: Book of Common Prayer

18. They took their name from a group of seven tragic poets of Alexandria under Ptolemy II, c. 280 Bc, and they included Remy Belleau, Antoine de Baif, Estienne Jodelle, Pontus de Tyard, Jean Daurat, and Du Bellay. For 10 points, identify this group of poets who sought to purify and modernize the French language, led by Pierre de Ronsard.

Answer: the Pleiades

19. They include osmotic pressure, freezing point, and boiling point. For 10 points, identify this class of properties of a solution which depend only on the number of particles present in the solution.

Answer: colligative properties

20. The son of a shoemaker born at Gori, he became a Marxist while studying for the priesthood at Tiflis and was expelled from the seminary. He became the People's Commissar for Nationalities in Lenin's cabinet and upon Lenin's death in 1924 he assumed with Kamenev and Zinoviev the joint succession, but then secured the expulsion of his two rivals, Zinoviev and Trotsky, to become sole leader of the Soviet Union. For 10 points, name this "man of steel."

Answer: Joseph Stalin

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1. For 5 points each, identify the musical instrument for which the following is famous for playing.

1. Arthur Rubinstein            Answer: piano
2. Ravi Shankar                Answer: sitar
3. Yo Yo Ma                    Answer: cello
4. Andres Segovia             Answer: guitar
5. Sonny Rollins               Answer: saxophone
6. Larry Mullen, Jr.           Answer: drums

2. For 10 points each, from their works, identify the following British or American authors who wrote on mythology.

1. The Golden Bough  
   Answer: Sir James Frazer
2. The White Goddess  
   Answer: Robert Graves
3. The Hero With a Thousand Faces  
   Answer: Joseph Campbell

3. Identify the following political groups from the French revolution for 10 points each.

1. Warville and Verniod were some of the leaders of this group who were executed. Composed of well-educated moderate Republicans, the group dominated the national assembly in 1791 and 1792. Their decline began with the overthrow of the monarchy by the radicals.  
   Answer: Girondists
2. A French extremist faction in the National Convention, they got their name because they occupied a raised part of the legislative hall, and they opposed and eventually defeated the more moderate Girondists.  
   Answer: the Montagnards or the Mountain
3. This group began in 1789 as a group of moderate deputies to the National Assembly. Following the overthrow of the King in 1792 this club admitted Montagnards and became more radical. Members of this group set up the dictatorship and ran the Reign of Terror.  
   Answer: Jacobins

4. Identify these Canadian Rivers for 10 points each.

1. It flows northwest from the Great Slave Lake to the Arctic Ocean.  
   Answer: Mackenzie River
2. Flowing east into Lake Winnipeg, it is one of the major rivers of the province with the same name.  
   Answer: Saskatchewan River
3. This 1200 mile river flows southeast, then east and north from the Omineca Mts to enter the Slave River.  
   Answer: Peace River

5. For 10 points each, identify the following Eugene O'Neill plays from brief descriptions.

1. A Pullman porter takes over a West Indian island  
   Answer: The Emperor Jones
2. The daughter of a Swedish sea captain turns up in New York, falls in love, and confesses to a shameful past.  
   Answer: Anne Christie
3. A middle-class American adolescent has his first experiences in the adult world.  
   Answer: Ah, Wilderness

6. Identify these parts of flowers for 10 points each.

1. The outermost part of a flower which surrounds the corolla, it consists of several sepals.  
   Answer: calyx
2. These are the individual parts of the corolla.  
   Answer: sepal(s)
3. The male reproductive organ of a flower, consisting of a filament bearing an anther.  
   Answer: pistil

7. Identify the sculptors of the following works for 10 points each.

1. The Burghers of Calais  
   Answer: August Rodin

2. Bird in Space

Answer: Constantine Brancusi

3. Dyskobolus, or The Discus Thrower

Answer: Myron

8. Identify the following "kings" from American history for 5 points each.

1. The Alabama civil rights leader and founder of the Southern Christian Leadership Conference.

Answer: Martin Luther King, Jr.

2. The 1675-76 attempt to oust white settlers from New England, led by a son of Massasoit.

Answer: King Philip's War

3. The two word phrase used by southerners before the Civil War to convey the importance of their most lucrative cash crop.

Answer: King Cotton

4. The delegate to the constitutional convention and Continental Congress who ran unsuccessfully for president and vice-president.

Answer: Rufus King

5. The admiral, commander of the US fleet and naval operations chief during World War II, the first man to occupy both posts.

Answer: Ernest J. King

6. The woman who beat Bobby Riggs in the \$100,000, winner-take-all "battle of the sexes" in 1973.

Answer: Billie Jean King

9. Identify the following "hy" terms from chemistry for 10 points each.

1. a reaction in which water is added to an alkene

Answer: hydration (do not accept hydrogenation)

2. a process in which several atomic orbitals mix to form an equivalent number of orbitals sharing characteristics of both.

Answer: hybridization

3. a term describing salts and other compounds that remove moisture from the air

Answer: hygroscopic

10. Identify this mythological figure, 30-20-10.

1. This son of Bestla was immortalized as "The Hero as Divinity" by Thomas Carlyle

2. His father was Bor and his brothers were Vili and Ve.

3. He was the father of Thor.

Answer: Odin or Woden, Wotan, Woutan, Votan, etc.

11. For ten points each, identify the archaeologists who discovered the following.

1. King Tut's Tomb

Answer: Howard Carter

2. the ruins of Troy

Answer: Heinrich Schliemann

3. the ruins of Knossos

Answer: Arthur Evans

12. Answer the following questions about galaxies for 10 pts. each.

1. What type of galaxy is the Milky Way?

Answer: spiral

2. M31 is the only other named spiral galaxy in the local group of the Milky Way. What name is given to this galaxy?

Answer: Andromeda

3. What astronomical law is used to relate the velocity of recession of a galaxy and its distance from the earth?

Answer: Hubble's Law

13. Identify this literary work, 30-20-10.

1. It was based on the fate of an ambushed prefect, and it features the characters Bishop Turpin, Ganelon, and Olivier.

2. This famous Chanson de Geste was set in 778.

3. Taking place at Roncesvalles, it is the national epic of France.

Answer: Song of Roland or La Chanson de Roland

14. Identify this head of state, 30-20-10.

1. As a youth he became a revolutionary and by 1949 had organized the Free Officers, a revolutionary military group.

2. He was instrumental in the overthrow of King Farouk.

3. In 1954 he became premier of the republic of Egypt.

Answer: Gamal Abdel Nasser

15. Identify this element on a 30-20-10 basis.

1. In the kidney, the hormone aldosterone acts to preserve sodium atoms at the expense of ions of this element.

2. Its carbonate, known as potash, was the source from which Sir Humphrey Davy extracted it in 1807.

3. It has an atomic number 19.

Answer: potassium

16. Answer the following questions about the English Civil War for 5 points each.

1. What monarch was overthrown during the war?

Answer: Charles I

2. What was the three word name of the military force of the Parliament?

Answer: New Model Army

3. What title was taken by Oliver Cromwell during his rule?

Answer: Lord Protector

4. What nickname is given to the Parliament that sat from 1640 to 1660 ?

Answer: Long Parliament (do not accept Rump Parliament which was the remnant of the long Parliament)

5. What Parliamentary general became commander of the New Model Army in 1645, which that same year he led to its decisive victory over the Royalists at Naseby?

Answer: Thomas Fairfax

6. What was the name of the comprehensive statement drawn up by Parliamentary leaders in 1641, which defined parliament's stance in the struggle against the authoritarian rule of Charles I?

Answer: Grand Remonstrance

17. Many terms in physics start with the letters "elec". For 5 points each, identify the the following:

1. It is the name applied to a conducting element in an electric cell, electronic tube, or semi-conductor device.

Answer: electrode

2. It is a substance whose solution conducts an electric current.

Answer: electrolyte

3. It is a charged particle having a mass of  $9.1 \times 10^{-31}$  kilograms.

Answer: electron

4. It is a device used to observe the presence of an electrostatic charge

Answer: electroscope [not electrometer]

5. It is the migration of charged particles under the influence of an electric field.

Answer: electrophoresis

6. It is a quantity of energy equal to  $1.602 \times 10^{-19}$  joules

Answer: electron-volt

18. Identify the American authors of the beat generation from their works for 5 points each.

1. Howl

Answer: Allen Ginsberg

2. The Dharma Bums

Answer: Jack Kerouac

3. Coney Island of the Mind

Answer: Lawrence Ferlinghetti

4. One Flew Over the Cuckoo's Nest

Answer: Ken Kesey

5. The Soft Machine

Answer: William S. Burroughs

6. Gasoline

Answer: Gregory Corso

19. For 10 points each, identify the following Italian biologists.

1. This Italian anatomist discovered the tube connecting the ear and throat.

Answer: Bartalameo Eustachio

2. He discovered a method for staining nerve cells and shared the 1906 Nobel prize in medicine and physiology.

Answer: Camillo Golgi

3. This 16th century professor of anatomy at Pisa and Padua made several discoveries relating to bones and to the organs of reproduction.

Answer: Gabriele Fallopious or Gabriello Fallopio

20. Given an area of specialty, identify the Greek muse of that field. 5 pts. each.

1. History

Answer: Clio

2. Sacred Verse

Answer: Polyhymnia

3. Love poetry

Answer: Erato

4. Epic poetry

Answer: Calliope

5. Dance

Answer: Terpsichore

6. Tragedy

Answer: Melpomene