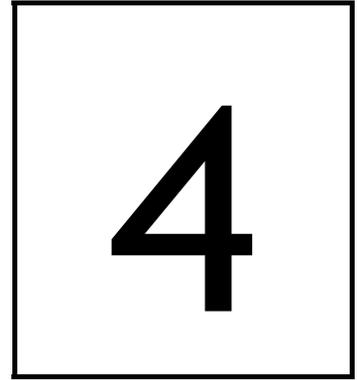


PENN BOWL 11

Boni by
Duke



1 Answer these questions about spermatogenesis, 10 points each.

[10] What steroid hormone causes development of both secondary sexual characteristics and sperm?

ANSWER: testosterone

[10] Testosterone is produced by which cells, which respond to LH, or luteinizing hormone?

ANSWER: interstitial or Leydig [LYE-dig] cells

[10] Sertoli cells produce sperm when they receive testosterone from Leydig cells and FSH, follicle stimulating hormone, from what gland?

ANSWER: anterior pituitary gland

2 Answer these questions on waves, 10 points each.

[10] This type of wave oscillates but does *not* propagate.

ANSWER: standing wave

[10] A set of three laws about waves along strings of fixed length are named for this 17th century mathematician, better known for his work on prime numbers.

ANSWER: Marin Mersenne's laws

[10] The first of Mersenne's Laws is sometimes named after this early Ionian geometer.

ANSWER: Pythagoras

3 Name these literary collections, 15 points each.

[15] Three novellas including "Old Mortality", "Noon Wine", and the title story, all focus on life's ambiguity, form this collection by Katherine Anne Porter.

ANSWER: *Pale Horse, Pale Rider*

[15] This 1962 essay collection by Edmund Wilson presents various contemporaries' attitudes towards the Civil War, its effect on their lives, and life during Reconstruction.

ANSWER: *Patriotic Gore*

4 Given an Imagist poem, name the poet, 10 points each.

[10] "Thirteen Ways of Looking at a Blackbird" ANSWER: Wallace Stevens

[10] "The Walls Do Not Fall" ANSWER: H.D. or Hilda Doolittle

[10] "Patterns" ANSWER: Amy Lowell

5 Name these Biblical prophets, 10 points each.

[10] He successfully revealed the meaning of Nebuchadnezzar's dreams.

ANSWER: Daniel

[10] This prophet brought David the news of God's wrath after David's indiscretions with Bathsheba.

ANSWER: Nathan

[10] The Horsemen, the Flying Scroll, and the Man with a Measuring Stick are three of this prophet's eight visions.

ANSWER: Zechariah [zeh-kuh-RYE-uh]

6 Name these poets from the Indian subcontinent, 15 points each.

[15] This early Indian poet is best known for the drama *Sakuntala* [sah-koon-TAH-lah].

ANSWER: Kalidasa

[15] An activist for Indian independence, her poetry collections include *The Bird of Time*.

ANSWER: Sarojini Naidu

7 Name these literary canines, 10 points each.

[10] In *Call of the Wild*, this dog is stolen from his home and transported to Alaska.

ANSWER: Buck

[10] This faithful dog recognized his master Odysseus.

ANSWER: Argos

[10] In *Two Gentlemen of Verona*, this "sourest-natured" dog belongs to Launce.

ANSWER: Crab

8 Name these people and places prominent in the Korean War, 10 points each.

[10] He was appointed commander of UN forces in Korea in 1950.

ANSWER: Douglas MacArthur

[10] A tactical error by the North Korean army allowed US troops to maintain a perimeter around this coastal city.

ANSWER: Pusan or Busan

[10] This American Vice-Admiral negotiated a truce at Panmunjom.

ANSWER: C. Turner Joy

9 30-20-10. Name the painter.

[30] In *The Dance of Life*, a couple waltzes from youth on the left to old age—unfaithful old age for the man.

[20] This Expressionist painter considered all of his works, including *Puberty*, *The Voice*, and *Madonna*, part of a single entity, "The Frieze of Life."

[10] This artist is most famous for an 1893 painting about a figure on a pier in spiritual anguish.

ANSWER: Edvard Munch [prompt on "*The Scream*"]

10 Answer these questions on Iberian politics in the 1720s, 10 points each.

[10] A 1729 treaty between France, England, and Spain was signed in what port city, then Spain's "cultural capital?"

ANSWER: Seville or Sevilla

[10] That same year, Portugal lost what port city in modern Kenya to Arab fighters?

ANSWER: Mombasa [mom-BAH-sah]

[10] The Spanish laid a 14-month siege on what British protectorate, seized during the War of Spanish Succession?

ANSWER: Gibraltar

11 For ten points each, name these Indian figures.

[10] This 10-headed demon tormented Vishnu as Hiranyakasipu and Sisupala.

ANSWER: Ravana

[10] Ravana kidnapped this daughter of Janaka, Vishnu's wife.

ANSWER: Siva or Shiva

[10] This incarnation of Vishnu killed Sisupala with a flaming disk, then sucked the demon's soul into his feet.

ANSWER: Krishna

12 Name these parts of a flower, 10 points each.

[10] In the center of the flower is this female reproductive structure.

ANSWER: pistil

[10] On top of the pistil is this receptive surface on which pollen grains are deposited and grow.

ANSWER: stigma

[10] This is the external, usually green or leafy, part of a flower consisting of sepals.

ANSWER: calyx [KAY-likes]

13 Name these people who ruled Japan, 10 points each.

[10] In 1192, he was appointed the first shogun.

ANSWER: Minamoto Yoritomo

[10] This clan, which broke from the Taira clan, took power after Yorimoto. They ruled behind the scenes with Fujiwara nobles as figureheads.

ANSWER: Hojo

[10] By 1336, this new shogunate had gained control of Japan.

ANSWER: Ashikaga or Muromachi

14 30-20-10. Give the common title.

[30] A fantasy novel by Julia Gray and a 1994 adventure game by Merit Software.

[20] A science fiction novel by Roger Zelazny and a Boris Karloff movie set in 1912 Greece.

[10] A painting by Arnold Bocklin and a tone poem by Sergei Rachmaninoff, one of whose themes is the Gregorian chant *Dies Irae*.

ANSWER: *The Isle of the Dead*

15 Answer the following about radioactive elements, 10 points each.

[10] This entire series of elements, set below the periodic table, is radioactive.

ANSWER: actinides or actinide series [do not accept "lanthanides"]

[10] This element, the lightest element without stable isotopes, is about half the atomic mass of the next such element.

ANSWER: technetium or Tc

[10] IUPAC gives this collective name to elements with triple-digit atomic numbers, all of which are radioactive.

ANSWER: transfermium elements

16 Answer these questions about the Irish Republican Army, 10 points each.

[10] In August 2001, three IRA members were arrested in Colombia for training members of what Marxist guerrilla group?

ANSWER: FARC or Revolutionary Armed Forces of Colombia or Fuerzas Armadas Revolucionarias de Colombia

[10] The IRA's October 2001 disarmament followed the terms of this 1998 agreement.

ANSWER: Good Friday Agreement

[10] This former Senator helped negotiate the Good Friday Agreement, and chaired a 2000 committee that helped broker the peace process.

ANSWER: George John Mitchell

17 Answer these questions about *Strange Brew*, 10 points each.

[10] What is the quintessentially Canadian surname of bumblers Bob and Doug?

ANSWER: McKenzie

[10] Played by Max von Sydow, who runs his evil experiments on residents of the Royal Canadian Institute for the Mentally Insane?

ANSWER: Brewmeister Smith

[10] Like good Canadians, the McKenzies play hockey. What position do both Bob and Doug play?

ANSWER: goalie or goaltender

18 30-20-10. Name the economist.

[30] His first professorship was in 1951 at the University of Buffalo. He later did a stint at the University of Virginia before moving to Chicago.

[20] Born in 1910, he won the Nobel Prize in Economics in 1991.

[10] This author of the 1959 work *The Problem of Social Cost* has a theorem concerning it named after him.

ANSWER: Ronald Harry Coase

19 Name these early geologists, 15 points each.

[15] This German geophysicist postulated the existence of the supercontinent Pangaea.

ANSWER: Alfred Lothar Wegener [VEH-gih-nur]

[15] This English geologist's 1727 *Observations on the Different Strata of Earths and Minerals* espoused his theory of stratified rock formations.

ANSWER: John Strachey [STRAY-hee]

20 Name these Olympic figure skating favorites, 10 points per part.

[10] This gold medal favorite and World Champion separated from her long-time coach Frank Carroll in October.

ANSWER: Michelle Kwan

[10] This 2000 Russian World Champion can hold one skate above his head to perform a Biemann spin.

ANSWER: Yevgeny Plushenko

[10] At the 2000 World Championships in Vancouver, this pairs team won the title before a "home crowd."

ANSWER: Jamie Sale and David Pelletier

21 Given a state or province, name its highest point, 10 points each.

[10] New Hampshire ANSWER: Mount Washington

[10] Virginia ANSWER: Mount Rogers

[10] British Columbia ANSWER: Mount Robson

22 His novels include *A Bend in the River* and *Guerrillas*. 10 points each.

[10] Name this Trinidadian recipient of the 2001 Nobel Prize in Literature.

ANSWER: Sir V(idiadharr) S(urajprasad) Naipaul

[10] Naipaul wrote books subtitled "A Wounded Civilization" and "A Million Mutinies Now" that are set in this nation.

ANSWER: India

[10] Willie Somerset Chandran, the son of a Brahmin father and an untouchable mother, emigrates from India to London in this novel, Naipaul's latest.

ANSWER: Half a Life

23 Given a World War II battle and a nation, name that nation's field commander, 10 points each.

[10] Great Britain at El Alamein [el AH-lah-meen]

ANSWER: Bernard Law Montgomery

[10] Germany at Normandy

ANSWER: Karl Rudolf Gerd von Rundstedt [ROOND-sted]

[10] Germany at Stalingrad

ANSWER: Friedrich Paulus

24 Given a pair of novels written in French, name the author, 10 points each.

[10] *Consuelo, Indiana*

ANSWER: George Sand or Amandine Aurore Lucie Dupin, Baronne Dudevant

[10] *The Miracle of the Rose, The Thief's Journal*

ANSWER: Jean Genêt [zhuh-NAY]

[10] *Down There, Against the Grain*

ANSWER: Joris Karl Huysmans

25 General Motors recently reached a \$26 billion deal with EchoStar Communications. 10 points each.

[10] EchoStar agreed to buy what satellite TV service from GM?

ANSWER: DirecTV

[10] The deal with EchoStar came after 18 months of futile negotiation with this company, seeking to vertically integrate DirecTV.

ANSWER: News Corporation

[10] DirecTV is actually owned by this company, whose controlling interest GM will sell to EchoStar.

ANSWER: Hughes Electronics, Inc.

26 Jose Batlle [bah-TIE] y Ordóñez modernized it through social and economic reforms that foreshadowed the New Deal. 15 points each.

[15] Name this Latin American nation.

ANSWER: Uruguay

[15] Batlle represented this major political party, which fought a civil war with their rivals, the Blancos, after the 1903 election.

ANSWER: Colorado Party

27 Given a TV show, name the Kid in the Hall who appeared on it, 10 points each.

[10] *NewsRadio*

ANSWER: Dave Foley or David Scott Foley

[10] *Saturday Night Live*, from 1995 to 1997

ANSWER: Mark McKinney

[10] *The Larry Sanders Show*, from 1995 to 1998

ANSWER: Scott Thompson

28 Name the instrument, or group of instruments, that represents these characters from Prokofiev's *Peter and the Wolf*, 10 points each.

[10] The Bird

ANSWER: flute

[10] The Cat

ANSWER: clarinet

[10] Peter's Grandfather

ANSWER: bassoon