

# FICHTE

Fake Intercollegiate Championship Tournament Experiment

2007-2008 Fake ICT  
Packet 3

Tossups

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**Uses** These questions may be used to host the tournament.

**Distribution** Then, you can give them away to people.

**Security** Don't talk about the packets online until April 6.

1. **This work was executed at Kaaterskill Clove after Jonathan Sturges was inspired to commission it by the "Sonnet to Solitude." At the bottom are some rocks which receive a waterfall out of a green forest. Cliffs bracket the painting; on the left, a (\*) straw-hatted man points with a stick while talking to his companion. For 10 points— name this depiction of William Cullen Bryant and Thomas Cole, by Asher Durand.**

answer: Kindred Spirits

2. **It is seen in the "fortunate confusion" of an innappropriate simile, as well as in "unconnected" puns. The last kind in the original outline reveals a division in the mind of its creator, and the remaning kinds involve words with (\*) multiple meanings. First outlined in a New Criticism book about this concept's "effects on English verse," for 10 points— name this concept of which William Empson found seven types.**

answer: ambiguity

3. **Fault tolerance in these programs can be addressed through either hierarchical protection domains or capability addressing. The micro type provides only such mechanisms as (\*) thread management and interprocess communication and runs in user space, while monolithic ones like the Linux one have all modules running in the same address space. For 10 points— identify this central component of an operating system which provides an interface between hardware and software and manages system resources.**

answer: kernel

4. **Participants in this event included a delegation travelling to meet Governor John Evans, and the "Fighting Parson." The targeted group was allowed by Scott Anthony to stop near Fort Lyon, and was flying (\*) white and American flags. Taking place in Colorado, it caused the deaths of several hundred Arapaho and Cheyenne under Black Kettle. For 10 points— Colonel John Chivington ordered what 1864 massacre?**

answer: Sand Creek massacre (accept Chivington massacre before it is read)

5. **His character John Macreedy is trying to award a military decoration but runs into local secrets in *Bad Day at Black Rock*. The chief judge in *Judgment at Nuremberg*, he played the Clarence Darrow analogue in (\*) *Inherit the Wind*, and his last role was as the father in *Guess Who's Coming to Dinner* opposite his companion Katherine Hepburn. For 10 points— name this star of *Boys Town* and *Captains Courageous*.**

answer: Spencer Bonaventure Tracy

6. **In one variety of this effect, its strength can be enhanced through thermal cycling, and it has also been proposed as the basis for a bremsstrahlung radiation source. Its type II (\*) manifestation allows for flux trapping and the formation of vortices, and its characteristic penetration depth can be calculated with the London equation. For 10 points— identify this example of perfect diamagnetism in which a superconductor expels magnetic fields.**

answer: Meissner-Ochsenfeld effect

7. **A figure named after this man wrote an important dissent to *In re Neagle* and was the Confederate ambassador to Russia. This man countered the autocratic plot of Spurius Maelius and was tasked with relieving an army that was trapped on Mount Algidus while fighting the Aequi. Inspiring the name of a (\*) veterans organization led by George Washington, for 10 points— name this reluctant dictator of Rome.**

answer: Lucius Quinctius Cincinnatus

8. **Frank Hamer led a band of fifty retirees from this group that attempted to volunteer in England during World War II. Trail namesake Charles Goodnight was once a member of this group, which captured Sam Bass, propped up (\*) Roy Bean, and popularized the Colt revolver. They were first chartered to protect San Felipe under the patronage of Stephen Austin. For 10 points— name this storied group of state agents.**

answer: Texas Rangers

9. **Vincenzo Scamozzi completed a work of this man found across from St. Mark's. The Foscari, Sarego, and Godi are some of the examples of his most characteristic genre, but perhaps his most famous (\*) design was for Giulio Capra at Vicenza. This creator of San Giorgio Maggiore and author of *The Four Books of Architecture* inspired the shape of Monticello. For 10 points— name this designer of the Villa Rotonda.**

answer: Andrea Palladio or Andrea di Pietro della Gondola

10. **He took action against the clan system to break the power of the *bajraktars*, and his regime was protected by a secret police known as the Sigirmi. During one of his campaigns, this man's agents forced schoolchildren to eat sweets during (\*) Lent and Ramadan. Succeeded on his death by Ramiz Alia, he was the only world leader to formally ban religion. For 10 points— name this dictator of Albania.**

answer: Enver Hoxha

11. **Between stops in Portland and Dallas, "Fat" Lever set this team's record for steals. However, most career records for this franchise are held by Alex English or by their longtime coach Dan (\*) Issel. Linas Kleiza, Kenyon Martin, and Marcus Camby now play for this team, which acquired its leading scorer in a December 2006 blockbuster trade. For 10 points— name this club featuring Allen Iverson and Carmelo Anthony.**

answer: Denver Nuggets (either or both names acceptable)

12. **It is demonstrated when the insulinlike growth factor II gene in mice functions poorly when passed through the egg. Chromosome 15 disorders Prader-Willi and Angelman result from undeleted chromosomes, giving an example of this process during (\*) gamete formation by methylation of cytosine-based nucleotides. For 10 points— name this genetic process in which genes from male and female parents are differentially expressed.**

answer: genomic imprinting

13. **One of this author's protagonists goes drinking with Bert Hutchinson, his ex-wife's new husband. In addition to *Stanley and the Women*, this author wrote a book in which Muriel Thomas hates Wales and Alun Weaver is a sex addict. This writer of *The (\*) Old Devils* may be best known for a novel in which the Welch family is harangued by James Dixon. For 10 points— name this writer of *Lucky Jim*.**

answer: Kingsley Amis

14. **He sarcastically dubbed *Time* magazine "The Ballet Luce" and compared the cartoons in the *New Yorker* unfavorably to Al Capp in a book subtitled "folklore of industrial man." 25 years later, he collaborated on (\*) *City as Classroom*. He also coined the term "global village" in his *Gutenberg Galaxy*. For 10 points— name this communications theorist who posited that "the medium is the message."**

answer: Marshall McLuhan

15. **A recent episode of this show featured a man wagering a partnership in Panko on the success of a dinner party. Todd Stashwick plays a character who is tracking down the central figures of this show, which begins with the drug-addicted (\*) Dahlia's release from prison and follows the Malloys pretending to be the title family. For 10 points— name this FX series about travelling con artists, starring Minnie Driver.**

answer: *The Riches*

16. **A possible final product of this process is a fuming form of oleum. One variety of this process employs pellets of silicate compound filled with a vanadium oxide. The production of the intermediates involved in this reaction is sometimes obtained by burning the product of the (\*) Frasch process, but more often by adding its dioxide to water. Largely replacing the lead chamber process, for 10 points— identify this industrial process which combines sulfur trioxide with water to form sulfuric acid.**

answer: contact process

17. **Early in his career, he defeated Eberhard of Franconia, a proxy of Louis IV of France. He also took tribute from such rulers as Mieszko of Poland and Boleslav I of Bohemia. He fought against Berengar of Ivrea in exchange for the support of Pope John XII, and this son of (\*) Henry the Fowler won a notable 955 victory over the Magyars at Lechfeld. For 10 points— name this early Holy Roman Emperor.**

answer: Otto II the Great

18. **Varieties of these orthorhombic minerals include tephroite and knebelite. The magnesium-rich variety of these minerals is believed to be the most abundant(\*) constituent of the upper mantle. These mafic minerals crystalize first in the continuous part of Bowen's reaction series, and its varieties include forsterite, also known as peridot. For 10 points— identify this group of minerals which gets its name from the green color of its magnesium-iron series.**

answer: olivine

19. **This man signed the Nassau agreement with the U.S. to acquire nuclear missiles and won re-election with the "You've never had it so good" campaign. Responsible for giving the (\*) "Winds of Change" speech to South Africa, he became Prime Minister after the Suez crisis, but six years later was felled by the Profumo scandal. For 10 points— name this Conservative, in power in Britain from 1957 to 1963.**

answer: Harold MacMillan

20. **At one point in this play, the protagonist explains her belief in "God the Mother," and later she cries out "you're hitting your father!" That character settles down with Charles (\*) Marsden after the effects of Gordon Shaw's death in war make the marriage of Sam Evans difficult, due to his wife banging a series of soldiers at a hospital. For 10 points— name this play about Nina Leeds, written by Eugene O'Neill.**

answer: *Strange Interlude*

21. **This range's highest portions are found in the Gorno-Badakhshan province. Various other mountain ranges originate from this one's namesake "knot," including the (\*) Karakoram and Hindu Kush. Kurumda, Revolution, and Ismail Samani peaks are among its highest, with the latter formerly known as Mount Communism. For 10 points— name this range largely found in Tajikistan.**

answer: Pamir(s) mountains

22. **This figure, who turned the peasants of Lycia into frogs, had a sister, Asteria, who was turned into the island of Ortygia. Along with the waves of Delos, that allowed her to find a place without sunshine to give birth. A massacre on Mount Cithaeron and fatal (\*) arrows from this Titan's huntress daughter resulted from a putdown towards this deity by Niobe. For 10 points— name this mother of Apollo and Artemis.**

answer: Leto

23. **Ursula is asked to watch for the arrival of a doctor in a play by this man, which ends with the death of a new mother who had conceived a sickly baby with her cousin. In addition to *The Intruder*, he wrote a play in which (\*) Berylune gives a magic diamond to Tytyl to help capture the title animal, and about two lovers who are attacked by Golaud. For 10 points— name this writer of *The Blue Bird* and *Pelléas and Mélisande*.**

answer: Maurice Maeterlinck

24. **As a result of the firing of Gary Brown by this city, Kym Worthy vacillated over whether to file charges against a politician here. Eventually both that man and Christine Beatty were indicted for their role in getting rid of (\*) whistle-blowing police officers in relation to a fake overtime pay scandal. For 10 points— name this city where a salacious text-messaging scandal is set to bring down mayor Kwame Kilpatrick.**

answer: Detroit

25. **This text refers to punishment as "negation of the negation" and uses the example of a fairly conducted exchange of property to illustrate the "common will" of citizens that legitimizes the state. A close reading of this work by (\*) Karl Marx was the origin of the "opium of the people" remark. For 10 points— name this work which links individual liberty theories to modern circumstances, written by George Friedrich Hegel.**

answer: *Elements of the Philosophy of Right* (or *Philosophy of Law* or *Naturrecht und Staatswissenschaft im Grundrisse* or *Grundlinien der Philosophie des Rechts*)

26. **The namesake island of this country is intended by Mellicha and Gajn Tuffieha bays, and it includes the islands of Kemmunett, Filfa, Kummuna and (\*) Gozo. Birkirkara is the largest city in this country. Speaking a Semitic language written in Latin characters, it is an archipelago found about sixty miles to the south of Sicily. For 10 points— name this south Mediterranean country.**

answer: Republic of Malta



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Bonuses

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1. For 10 points each— identify these various types of lakes:
- A. These U-shaped lakes are formed when a meander stream is cut off.  
answer: oxbow lakes
- B. Often found inside of glaciated amphitheatres known as cirques, this is the term for a high mountain lake.  
answer: tarn
- C. Lake Vostok is the largest type of this lake, whose surface is frozen but whose interior is kept liquid by geothermal heating.  
answer: subglacial lake
2. Name these works of Thomas Paine, for 10 points each.
- A. This 1780 tract advocates replacing the Articles of Confederation and starting a homesteading policy administered with federally controlled lands.  
answer: Public Good
- B. Advocating a progressive income tax and the end of monarchies, this was Paine's response to Edmund Burke's condemnation of the French revolution.  
answer: The Rights of Man
- C. Signed under the pseudonym "Common Sense," this series of sixteen articles urged the Continental Army to continue fighting through "times that try men's souls."  
answer: The Crisis
3. This USC alum starred at several positions from 1981 to 1991 with the San Francisco 49ers. For 10 points each—
- A. Name this Football Hall of Famer and father of Buccaneers linebacker Ryan Nece.  
answer: Ronnie Lott
- B. Lott finished his career with this team, making him the only Hall of Fame defender ever to play for them. Joe Namath and Don Maynard are among their other alums.  
answer: New York Jets (prompt on New York)
- C. Lott's 1978 USC team split the national championship with Alabama and this team, coached by Barry Switzer and including Heisman winner Billy Sims.  
answer: University of Oklahoma
4. Name these defunct libraries, for 10 points each.
- A. Over twenty-thousand tables in the Assyrian language compiled by this son of Esarhaddon in Nineveh have been recovered.  
answer: Ashurbanipal
- B. Callimachus maintained the catalog at this center of ancient learning located in Hellenistic Egypt.  
answer: Library of Alexandria
- C. al-Khwarizmi's founding of algebra took place at this library in Baghdad, the educational center of the Abbasid empire.  
answer: House of Wisdom or Bayt al-Hikma

5. This genre includes the grammatical texts of Panini and Hindu collections of aphorisms. For 10 points each—
- A. Give this term, which also refers to the more expansive Buddhist scriptures, and to a manual by Vatsyayana which includes the "deer woman" positions.  
 answer: sutra
- B. This gem-named Mayahana sutra from the Wisdom Texts corpus discusses the illusory nature of reality and is thought to anticipate Zen.  
 answer: Diamond Cutter Sutra [or Vajracchedika-sutra; or Chinkang Ching]
- C. This very brief sutra, narrated by the bodhisattva of compassion Avalokitesvara, reiterates the essentials of the doctrine of emptiness from the Wisdom Texts.  
 answer: Heart Sutra
6. This song's chorus informs us that love belongs to the brave and that you should hold your heart courageously. For 10 points each—
- A. Name this track from the 2006 album *Return to Cookie Mountain*.  
 answer: "Province"
- B. "Province" is a song by this multimedia-named band, including Tunde Adebimpe and David Sitek, which also released *Desperate Youth, Blood Thirsty Babes*.  
 answer: TV On the Radio
- C. Guest-appearing on "Province" is this longtime glam-rock remora whose solo hits include "Space Oddity," "Changes," and "The Man Who Sold the World."  
 answer: David Bowie or David Robert Jones
7. The Treaty of Troyes made him the king of France, but despite marrying Margaret of Anjou, he ruled more effectively in England. For 10 points each—
- A. Name this last Lancastrian king, who was killed soon after his supporters lost the battle of Tewkesbury in 1471.  
 answer: Henry VI
- B. In 1450, this man raised a rebellion against Henry from Kent and won the battle of Sevenoaks before being captured at Lewes.  
 answer: John/Jack Cade (prompt on John Mortimer; prompt on John Aylmer)
- C. This Lord of Saye and Sele was the lord treasurer to Henry. Killed in the Cade rebellion, his head was put on a pike kissing that of the Archbishop of Canterbury.  
 answer: James Fiennes
8. Between four and six alternating elliptical and columnar splotches of black cover mostly yellow and white backgrounds in this series. For 10 points each—
- A. Name this series of allegedly political paintings depicting the artist's reaction to the triumph of Franco.  
 answer: Elegy to the Spanish Republic or Elegies to the Spanish Republic
- B. This painter of *African Suite* and *At Five in the Afternoon* painted the *Elegy to the Spanish Republic* series.  
 answer: Robert Motherwell
- C. Clement Greenberg applied this term to the work of Motherwell, Kenneth Noland, and others who worked in the non-action painting part of abstract expressionism.  
 answer: color field theory painting
9. The buffoonish Demos represents democracy in this play. For 10 points each—
- A. Name this work of Aristophanes in which Demos gets rid of his slave Cleon in favor of the sausage-seller Agoracritus.  
 answer: The Knights or Hippes
- B. Designed to be read on cold evenings in Athens, this author's *Attic Nights* remains a valuable source for fragments quoted from now-lost older works.  
 answer: Aulus Gellius
- C. In this Francis Beaumont play, the grocer George attends a stage show about Venturewell and Merrythought and demands to see more adventures of grocers.  
 answer: The Knight of the Burning Pestle

10. Several companies had to be bailed out of their own abject failure in 2008. For 10 points each—
- A. This #5 investment bank in the U.S. had to beg money off J.P. Morgan and the Fed to avoid blinking out in March.  
 answer: Bear Sterns
- B. Air France bid for a 49.9 percent stake in this other national airline, but union concerns may block the deal.  
 answer: Alitalia
- C. Best Buy is mailing out rebates to anyone who bought players of this now-dead media format.  
 answer: HD DVD
11. The protagonist, Andres, seeks meaning in a dream about seeing a Fritz Lang film on an odd screen. For 10 points each—
- A. Name this novel about a botched attempt by "the Screwery" to kidnap an Argentine political official and negotiate for the release of political prisoners.  
 answer: A Manual for Manuel or Libro de Manuel
- B. *A Manual for Manuel* was written by this author of *Blow Up*, *A Model Kit*, and *The Winners*.  
 answer: Julio Cortazar
- C. Horacio Oliveira is a member of the Serpent Club in this Julio Cortazar novel, whose chapters can be read in at least three different orders.  
 answer: Hopscotch or Rayuela
12. His two mountain homes, in the east and the west, were guarded by the Scorpion Men. For 10 points each—
- A. Name these Babylonian sun god, also called the brother and husband of Ishtar.  
 answer: Shamash
- B. Shamash scored an assist against this giant resident of the cedar forest, who was killed by Gilgamesh and Enkidu.  
 answer: Humbaba
- C. In addition to being the patron of cattle, this father of Shamash was the god of the moon.  
 answer: Sin or Nanna
13. Inspired by a description of a small trickle turning into a river in the *Georgics*, it was debuted on NBC radio in 1938. For 10 points each—
- A. Name this piece, whose title indicates that it proceeds slightly faster than largo.  
 answer: Adagio for Strings
- B. *Adagio for Strings* was composed by this composer of *A Hand of Bridge* and *Vanessa*.  
 answer: Samuel Barber
- C. Attempting to supply the melody alluded to in the second act of *Prometheus Unbound*, this Barber piece includes trumpets instructed to cry "Asia, Asia."  
 answer: Music for a Scene from Shelley
14. Each of its G monomers hydrolyzes ATP to ADP, assembling into two F filaments that curl around each other. For 10 points each—
- A. Name this protein making up the thin filaments and the I band of muscle fibers.  
 answer: actin (accept microfilament)
- B. The thick A band and thin I band surrounded by its namesake reticulum make up this contractile unit of muscles.  
 answer: sarcomere
- C. Thin filaments also contain this protein that spans the filament, similar to the role of titin in linking thick filaments to the Z disk.  
 answer: nebulin

15. The protagonist of this movie claims to be the Unabomber and kills someone with a carrot. For 10 points each—
- A. Name this 2007 action satire starring Clive Owen and Paul Giamatti.  
 answer: Shoot Em Up
- B. *Shoot Em Up* director Michael Davis previously wrote the screenplay for this 1994 movie in which Jimmy and Billy Lee have to stop Kogo from putting a talisman together.  
 answer: Double Dragon: The Movie
- A. Playing the pregnant woman marked for death in *Shoot Em Up* is this Italian actress, who was the female lead in *Irréversible* and Persephone in the *Matrix* sequels.  
 answer: Monica Bellucci
16. Tom Brangwen marries Lydia Lensky and lives a happy life before dying in a flood. For 10 points each—
- A. Name this novel, partially a prequel to *Women in Love*.  
 answer: The Rainbow
- B. *The Rainbow* and *Women in Love* are by this author of *Lady Chatterley's Lover*.  
 answer: David Herbert Lawrence
- C. This Lawrence novel is set in Sydney, where Benjamin Cooley recruits Richard Somers into a fascist movement.  
 answer: Kangaroo
17. Considered an extension of the Hawiye clan, this group's nominal leader is Sharif Sheikh Ahmed. For 10 points each—
- A. Name this religious group which controlled Somalia for most of 2006.  
 answer: the Islamic Courts Union (or Union of Islamic Courts or anything close)
- B. The Islamic Courts Union was ousted by troops from this neighboring country under the rule of Meles Zenawi.  
 answer: Ethiopia
- C. This most northeasterly region of Somalia, centered at Garowe and Bosasso, has been a de facto independent state under the leadership of Abdullahi Yusuf since 1998.  
 answer: Puntland
18. For 10 points each— answer some questions about logic:
- A. Implicitly employed when proving things by contradiction, this inference rule states that if p implies q and q is false, then p is false.  
 answer: modus tollens
- B. Inference rules like modus tollens and modus ponens are necessary for the construction of this kind of system of logic which extends propositional logic through quantifiers.  
 answer: first-order logic
- C. First-order logic has this property, which according to the Church-Turing thesis means that there is no way to determine the validity of an arbitrary formula in it.  
 answer: undecidable
19. The heavenly sword was lost when emperor Antoku drowned at this battle. For 10 points each—
- A. Name this 1185 naval battle, which ended the Gempei War and signaled the start of the Kamakura shogunate.  
 answer: Battle of Dan no ura
- B. This governmental reformer and first shogun was the chief beneficiary of the Battle of Dan no ura and set up Kamakura rule.  
 answer: Minamoto Yoritomo
- C. The battle marked the end of this Fujiwara-dominated period of Japanese history, which had begun in 794.  
 answer: Heian



20. One of their namesakes shared the Nobel Prize in chemistry with Kenichi Fukui for their formulation. For 10 points each:
- A. Identify this set of rules which use orbital symmetry to predict reaction stereochemistry.  
answer: Woodward-Hoffman rules
- B. The Woodward-Hoffman rules were formulated from the extension of this theory for determining energies in hydrocarbon systems by using linear combinations of atomic orbitals.  
answer: Huckel theory or method
- C. Robert Woodward is also pretty famous for being the first to synthesize this alkaloid used for treating malaria.  
answer: quinine
21. Including such chapters as "The Compensation Principle," this book began as its author's doctoral thesis. For 10 points each—
- A. Name this book which first laid out the five criteria of the social welfare function, such as independence of irrelevant alternatives, to show that such a function cannot exist.  
answer: *Social Choice and Individual Values*
- B. *Social Choice and Individual Values* was written by this man, who thus lends his name to the "impossibility theorem" proved in the book.  
answer: Kenneth Arrow
- C. This member of the social welfare criteria states that a candidate who wins the first round of an election and then gains all changed votes should win the second round.  
answer: monotonicity
22. This sonnet first appeared in the 1925 volume *Color*. For 10 points each—
- A. Name this poem which alludes to a "little buried mole" before expressing wonder at "this curious thing/To make a poet black, and bid him sing!"  
answer: "Yet Do I Marvel"
- B. This author of "Heritage," *Copper Sun*, and "The Ballad of the Brown Girl" wrote "Yet Do I Marvel."  
answer: Countee Cullen
- C. Sam Lucas cons revivalists into giving him money to stop gambling in this Cullen novel, featuring the marriage of Mattie Johnson.  
answer: *One Way to Heaven*
23. Name these groups of people, for 10 points each.
- A. This circle of Impressionist American painters included Edmund Tarbell, J.H. Twatchman, and Childe Hassam among others.  
answer: The Ten
- B. Divided into pagan, Jewish, and Christian sections, this group ranged from Hector of Troy to Godfrey of Bouillon and represented the ideals of medieval chivalry.  
answer: the Nine Worthies (or neuf preux; or Nine Heroes; or Nine Nobles)
- C. This group of Daoist characters hangs around on a mountain and at the Peach Festival having picaresque adventures and living forever.  
answer: the Eight Immortals or Ba Xian
24. Sitting on the Zayandeh River and home to the Sahrestan Bridge, this city was decimated by the Ghilzay in 1722. For 10 points each—
- A. Name this home to the Universal Mosque and former capital of the Safavid dynasty.  
answer: Esfahan
- B. Esfahan is a city in this present-day country, where you might also find Fars and Khorasan.  
answer: Iran
- C. This World Heritage Site in Esfahan, a plaza built by Shah Abbas, is enclosed by the Qaysariyyeh portico, a Timurid palace, and two mosques.  
answer: Imam's Square [or Maydan-e Emam; or Royal Square; or Maydan-e Shah]

25. He was attacked by mobs in London after gaining a reputation for cruelty in Italy. For 10 points each—  
A. Name this Austrian general who notoriously put down a rising in Brescia in 1849, earning him the nickname “Hyena.”

answer: Julius Jacob, baron von Haynau

B. In 1864, this man met and thanked “the men who flogged Haynau” at the Barclay and Perkins brewery. He led the redshirt troops in the Italian Risorgimento.

answer: Giuseppe Garibaldi

C. Haynau executed the “thirteen martyrs of Arad,” men fighting for the independence of this country whose other nationalists included Lajos Kossuth.

answer: Hungary

26. For 10 points each— answer some questions about noted physicist Felix Bloch:

A. Together with Ed Purcell, Bloch is the developer of this analytic method which utilizes Larmor precession of nuclear spin.

answer: NMR or nuclear magnetic resonance

B. In ferromagnetism, the Bloch wall is the characteristic separation between these regions composed of many spins aligned in the same direction, which are the basic units of magnetic materials.

answer: domains

C. Bloch's theorem in quantum mechanics gives the solution to these types of potentials and can be used to derive Brillouin zones in crystals.

answer: periodic (accept logical equivalents)