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Cost-benefit of apprenticeship training for firms  
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@ 35min24sec



## Cost-Benefit Analyses for Companies in (Dual) VET

Prof. Dr. Stefan C. Wolter  
University of Bern

He is a Dutch physicist. The shifting of electrons in super conductors is prevented by \_\_\_\_\_ a) Quantum effect b) Threshold energy level c) Energy barrier d) Orbitals View AnswerAnswer: a Explanation: The shifting of electrons in super conductors is prevented by quantum energy. Only i Only ii i & ii i & iii The binding energy for a cooper pair is  $10^{-2} \text{ eV}$   $10^{-4} \text{ eV}$   $10^{-6} \text{ eV}$   $10^{-8} \text{ eV}$  (Ans:b) There are three important lengths which enter the theory of superconductivity except London penetration length Intrinsic coherence length Normal electron mean free length Mean path length (Ans:d) The magnetic lines of force cannot penetrate the body of a superconductor, a phenomenon is known as Isotopic effect BCS theory Meissner effect London theory (Ans:c) Which of the following conductor has highest critical temperature? Next Steps: Get Free Certificate of Merit in Applied Chemistry Participate in Applied Chemistry Certification Contest Become a Top Ranker in Applied Chemistry Take Applied Chemistry Tests Chapterwise Practice Tests: Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Chapterwise Mock Tests: Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Manish Bhojasia, a technology veteran with 20+ years @ Cisco & Wipro, is Founder and CTO at Sanfoundry. a) 1 b) 2 c) 3 d) 4 View AnswerAnswer: b Explanation: Based on the magnetic response super conductors are of two types. The electrons head in \_\_\_\_\_ direction. 12. Note: Join free Sanfoundry classes at Telegram or Youtube 4. The permeability is less than that of permeability in Vacuum. The ideal super conductors exhibit \_\_\_\_\_ a) Meissner effect b) Mesmeric effect c) Mesomeric effect d) Monomeric effect View AnswerAnswer: a Explanation: The ideal super conductors exhibit meissner effect. The earliest superconductors to be studied elaborately is \_\_\_\_\_ a) Niobium alloy b) Copper alloys c) Steel alloys d) Iron alloy View AnswerAnswer: a Explanation: The earliest superconductors to be studied elaborately are niobium alloy. 1. 3. 11. Neils bohr given about atomic structure. Diamagnetic Paramagnetic Ferromagnetic Ferromagnetic (Ans:a) Which of the following are the properties of superconductors? But an insulator is not necessarily a dielectric. This functions as a super conductor at a critical temperature of \_\_\_\_\_ a) 30oK b) 60oK c) 90oK d) 120oK View AnswerAnswer: c Explanation: This functions as a super conductor at a critical temperature of 900K. Preparation of super conductors by ceramic method by homogeneous mixture of the oxides \_\_\_\_\_ in their molar ratios. Mercury has its transition temperature of 4.185 K when its isotopic mass is (a) 208.7 u (b) 199.5 u (c) 192.3 u (d) 203.4 u Showing 21 to 28 out of 28 Questions This set of Applied Chemistry Multiple Choice Questions & Answers (MCQs) focuses on "Super Conductors". Otto lehman coined the name liquid crystal. He lives in Bangalore, and focuses on development of Linux Kernel, SAN Technologies, Advanced C, Data Structures & Algorithms. 5. 2. Super conductors are discovered in the year \_\_\_\_\_ a) 1900 b) 1991 c) 1911 d) 1905 View AnswerAnswer: c Explanation: Super conductors are discovered in the year 1911 by Kammerlingh Onnes. Meissner effect is strictly followed by (a) diamagnetic material (b) ferromagnetic material (c) superconducting material (d) paramagnetic material 25. As they are in same direction, they do not collide with each other. A solid that offers no \_\_\_\_\_ passage of electricity is called super conductors. Meissner effect is shown by the equation (a)  $B=0$  at  $T>T_c$  (b)  $B=0$  at  $T\leq T_c$  (c)  $B\neq 0$  at  $T\leq T_c$  (d)  $\text{div } B\rightarrow 0$  at  $T=T_c$  24. State True/False.A. TrueB. a) Diamagnetic b) Ferro magnetic c) Ferri magnetic d) Para magnetic View AnswerAnswer: a Explanation: Ideal super conductors become diamagnetic at super conducting state. The expulsion of magnetic flux from the interior of a piece of super conducting material as the material undergoes transition to super conducting phase. A dielectric is always an insulator. However, this is not necessary for a dielectric. Heating them to obtain an oxygen deficient super conductors. The phenomena of super conductors was first discovered by \_\_\_\_\_ a) Kammerlingh Onnes b) Neils bohr c) Richard Smalley d) Otto lehman View AnswerAnswer: a Explanation: The phenomena of super conductors were first discovered by Kammerlingh Onnes. When he was measuring the resistivity of the mercury below 4.2K he found the super conductors. 9. Based on magnetic response super conductors are of \_\_\_\_\_ types. 14. The normal metal passes into super conducting state at \_\_\_\_\_ a) High temperature b) Low temperature c) Critical temperature d) No temperature View AnswerAnswer: c Explanation: The normal metal passes into super conducting state at critical temperature. Stay connected with him at LinkedIn. Subscribe to his free Masterclasses at Youtube & technical discussions at Telegram SanfoundryClasses. 13. Sanfoundry Global Education & Learning Series - Applied Chemistry. Ideal super conductors completely become \_\_\_\_\_ at super conducting state. The critical temperature is that temperature where (a) the resistivity of a superconducting metal drops to zero (b) the current flowing through a superconductor is minimum (c) the magnetic field inside a superconductor becomes constant (d) none of these 23. Aluminium Zinc Molybdenium Tin (Ans:d) MCQs of Superconductivity Showing 21 to 28 out of 28 Questions 21. They are ideal super conductors or hard super conductors. Charged particles in solids can travel only in fixed directions or levels. Annealing the homogeneous mixture to room temperature to retain its \_\_\_\_\_ a) Composition b) Structure c) Its properties d) Composition, structure and its properties View AnswerAnswer: d Explanation: Annealing the homogeneous mixture to room temperature to retain its composition, structure and its properties. 7. They are very good conductors of electricity. a) Same b) Different c) Opposite to one another d) Random View AnswerAnswer: a Explanation: The electrons head in same direction and continue to carry current endlessly. Electromagnetic Theory Multiple Choice Questions on "Dielectrics". This is seen in insulators. (a) two electrons moving in the same direction (b) two electrons with resultant spin-zero (c) two electrons connected like a boson (d) two electrons connected through a phonon 27. a) Conductance b) Inductance c) Resistance d) Impedance View AnswerAnswer: c Explanation: A solid that offers no resistance passage of electricity is called super conductors. FalseAnswer: aClarification: For a material to be dielectric, its permittivity should be very high. The constituents of this material that is yttrium, barium and copper are in \_\_\_\_\_ a) 1:1:1 b) 1:2:2 c) 1:2:3 d) 1:2:1 View AnswerAnswer: c Explanation: The constituents of this material that yttrium, barium and copper are in 1:2:3 molar stoichiometric ratios and hence are called as 1:2:3 super conductors. For a material to be insulator, the condition is to have large band gap energy. They are diamagnetic in nature They have zero resistivity They have infinite conductivity All of the above (Ans:d) The minimum amount of current passed through the body of superconductor in order to destroy the superconductivity is called Induced current Critical current Eddy current Hall current (Ans:b) The energy required to break a cooper pair is \_\_\_\_\_ of the energy gap of superconductor. 8. The hard super conductors are those in which the ideal behaviour is seen up to a \_\_\_\_\_ critical magnetic field. To practice all areas of Applied Chemistry, here is complete set of 1000+ Multiple Choice Questions and Answers. The critical magnetic field is that at which (a) A material behaves like a normal conductor for the last time (b) A material maintains its superconductivity for the last time (c) A material has its mixed normal-superconducting state (d) A material transforms from a superconducting state to an insulating state 22. Multiple Choice Questions (MCQ) on Superconductivity In superconductivity the conductivity of a material becomes Zero Finite Infinite None of the above (Ans:c) In superconductivity, the electrical resistance of material becomes Zero Infinite Finite All of the above (Ans:a) The temperature at which conductivity of a material becomes infinite is called Critical temperature Absolute temperature Mean temperature Crystallization temperature (Ans:a) In superconductors, the Fermi energy level is below the ground state Midway between the ground state and first excited state Above first excited state At first excited state (Ans:b) The superconducting state is perfectly \_\_\_\_\_ in nature. a) Y2O3, BaCO3, CuO b) Y2O3, BaCO3, Cu2O c) Y2O4, BaCO3, CuO d) YO3, BaCO3, CuO View AnswerAnswer: a Explanation: Preparation of super conductors by ceramic method by homogeneous mixture of the oxides Y2O3, BaCO3, CuO in their molar ratios. 15. Electrons in normal metals shift from one energy level to another. One half Equal to Twice Thrice (Ans:b) The copper pair has Equal and opposite momenta Equal and opposite spin Unequal and same spin Which of the above are true? Take Applied Chemistry Tests Now! 6. London penetration depth is expressed by the relation (a)  $\lambda = \mu \mu_0 n s^2$  (b)  $\lambda = n s \mu_0 m q^2$  (c)  $\lambda = \mu_0 n s m q^2$  (d)  $\lambda = q^2 n s m \mu_0$  26. Most of the metals act as super conductors at low temperatures. Richard Smalley discovered the fullerene by laser ablation method. If the material is transformed into a superconducting state from a normal state, its entropy (a) decreases (b) increases (c) remains same (d) shows abrupt change 28. The super conductivity can be understood with the help of quantum physics. 10. a) Higher b) Lower c) Moderate d) Zero View AnswerAnswer: b Explanation: The hard super conductors are those in which the ideal behaviour is seen up to a lower critical magnetic field beyond which the magnetization gradually changes and attains zero.

Fullerene is nothing but an allotrope of carbon wherein its molecules consist of carbon atoms that are connected by single and double bonds. This results in the formation of a closed or partially closed cage-like structure (a mesh consisting of fused rings) that further contain several atoms. UPSSSC Junior Engineer Exam Pattern 2021. The selection process is similar for all the posts under the Junior Engineer title. There is only a single Written Examination round comprising two papers. The exam pattern is detailed below: 12/06/2018 · Mastering Physics Solutions Chapter 21 Electric Current and Direct-Current Circuits Q.1CQ What is the direction of the electric current produced by an electron that falls toward the ground? Solution: By convention, the direction of electric current is always in the opposite direction to ... 30/10/2018 · The UPSSSC Junior Engineer exam pattern comprises a written test which will be in which questions will be asked from two papers. Check the table below to know detailed information about it. ... Basic Idea of Superconductivity, Meissner's Effect Non-conventional Energy Sources. Basic concepts of atomic structure, quantum numbers, covalent bonds ... Department of Energy's Advanced Research Projects Agency-Energy (ARPA-E) for two projects developed in the Cullen College of Engineering and Texas Center for Superconductivity at the University of Houston (TcSUH). 7 stars. Better. Frequently Asked Questions (FAQ) The following frequently asked questions are covered within this resource. Physics is one of the most fundamental branch of Science which deals with studying the behavior of matter. The main goal is to understand how the universe behaves and how the energy is produced. Learn Physics in a detailed manner with Vedantu.com and delve deeper into various branches of Physics like Mechanics, Optics, Thermodynamics, Electromagnetism, and ... 11/07/2021 · When the electrical resistance is zero, this phenomenon is called superconductivity. According to ohm's law, If electrical resistance i.e.,  $R = 0$  then, Hence, the infinite current flowing through the conductor if the resistance of that conductor is zero; this phenomenon is known as superconductivity.

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