COMPUTER SCIENCE ENGINEERING OBJECTIVE QUESTION AND ANSWERS

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What are the objectives of computer science engineering? The computer systems engineering program is concerned with the analysis, design and evaluation of computer systems, both hardware and software. The program emphasizes computer organization and architecture, systems programming, operating systems and digital hardware design.

What is MCQ in computer science? The Computers MCQ (Multiple Choice Questions) is an excellent resource for individuals seeking to enhance their understanding of various computer-related topics.

Which is not related to computer MCQ? Answer. Answer: The correct answer is Paper. Among the options, only Paper is NOT a computer component.

What is used in computer for communication purposes MCQ? A modem is used for transmitting and receiving data over a communication channel, such as twisted-pair telephone lines, coaxial cables, and optical fibers.

What are the objectives of computer engineering program? An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

What is the goal of computer science engineer? Identify and analyze a problem, design a solution algorithm as a systematic way of processing the necessary

information to produce the required output, and implement the solution as a computer program. 2. Become proficient in programming: Understand and master the fundamental constructs and styles of programming.

What is computer science best answer? Computer science is the study of computers and computational systems. It is a broad field which includes everything from the algorithms that make up software to how software interacts with hardware to how well software is developed and designed.

What are basic computer questions?

What is the fundamental question of computer science? The fundamental question of computer science is 'what can be computed? ' To answer this question, we use design, analysis, and experimentation.

How many types of computers are there? There are many different types of computers, but here are 7 of the most common Computer: Supercomputers, Mainframe computers, Minicomputers, Personal computers (PCs), Workstation computers, Microcontrollers & Smartphones.

What is the full form of CPU? The full form of CPU is Central Processing Unit. The CPU's known as the brain of a computer.

Who is the father of computers? Charles Babbage KH FRS (/?bæb?d?/; 26 December 1791 – 18 October 1871) was an English polymath. A mathematician, philosopher, inventor and mechanical engineer, Babbage originated the concept of a digital programmable computer. Babbage is considered by some to be "father of the computer".

Which of the following cannot be done using a computer? Understanding can not be done by a computer. A machine can perform input, processing, and management, but because it lacks a brain, it cannot perform understanding.

Which computer language is used on internet MCQ? The correct answer is option 2 i.e HTML. Web pages use a language called the HyperText Markup Language (HTML).

Which of the following is the brain of the computer? CPU (Central Processing Unit) is regarded as the "brain" of the computer. This is because most of the processing of a computer is performed by CPU.

What is the objective of Computer Science engineering resume? Computer Science Engineering graduate with a focus on software development and algorithm design. Eager to apply my programming skills in Java and Python, as well as my problem-solving abilities, in an entry-level role as a Software Engineer to contribute to innovative and impactful projects.

What is the objective of Computer Science degree? Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

What is the course objective of Computer Science? Upon completion of a BA in Computer Science students will be able to: Apply algorithmic reasoning to a variety of computational problems. Design, correctly implement and document solutions to significant computational problems. Implement software systems that meet specified design and performance requirements.

What are the objectives of engineering science? Engineering sciences as a whole is equally concerned with cognition and practice. The cognitive goals are to create new knowledge, for instance, in the form of functional and structural rules, technological laws or ecological-sociotechnological systems.

The Manual of Museum Planning: Sustainable Space Facilities and Operations

Q1: What is the Manual of Museum Planning?

A: The Manual of Museum Planning is a comprehensive guidebook for museum professionals, providing best practices for planning, designing, and operating museums. It covers all aspects of museum operations, including sustainable space facilities and operations.

Q2: Why is sustainability important for museums?

A: Museums play a significant role in promoting environmental awareness and conservation. By implementing sustainable practices, museums can reduce their environmental impact, contribute to a healthier planet, and inspire visitors to adopt more sustainable lifestyles.

Q3: What are the key principles of sustainable museum operations?

A: Sustainable museum operations focus on reducing energy consumption, water usage, and waste generation. This can be achieved through measures such as energy-efficient lighting, water-saving fixtures, and waste diversion programs.

Q4: How can museums plan sustainable space facilities?

A: Museum designers should consider sustainability from the outset. This involves selecting sustainable building materials, incorporating natural light and ventilation, and minimizing the building's energy footprint.

Q5: What are some examples of sustainable practices in museums?

A:

- The Natural History Museum in London uses rainwater harvesting systems and solar panels to reduce energy consumption.
- The Smithsonian National Museum of Natural History in Washington, D.C., installed a green roof to regulate building temperature and create a habitat for wildlife.
- The Museum of Contemporary Art Denver uses LED lighting and low-flow fixtures to reduce its water usage.

How does distributed generation affect the grid? DG reduces the amount of energy lost in transmitting electricity because the electricity is generated very near where it is used, perhaps even in the same building. This also reduces the size and number of power lines that must be constructed.

What are the challenges of grid integration? Technical and economic barriers to grid integration The integration of renewable energy into the electrical grid encounters several technical and economic barriers. Technical challenges include

the intermittency of renewable sources, the need for grid modernisation, and the integration of distributed energy resources.

What are the challenges associated with distributed generation system?

What are the problems with grid connection? [25] Grid connection brings problems of voltage fluctuations and harmonic distortion. [26] Both during grid faults and in normal conditions, active power control will play an important role. [27] Regulators based on symmetrical components are well suited to control grid connected converters.

What role does grid interconnection play in distributed generation? In simple terms, a grid interconnection ties a network of local grids together at a synchronized frequency. This allows the exchange of energy from local grids with surplus power to those having a demand higher than what they can produce locally.

What are the pros and cons of distributed generation? The advantages of DG include reduced transmission and distribution losses, improved grid stability and security, and reduced environmental impact. The disadvantages of DG include initial investment cost and maintenance cost.

What are the disadvantages of the grid distribution system? Electricity transmission losses Electricity distribution over long distances increases the temperature within power lines and thus causes significant energy losses in the form of heat. In the end, these losses are paid for by everyday electricity consumers.

What are the 5 fundamental challenges of integration?

What is a major vulnerability of the grid? Power Grid Threats & Vulnerabilities As IoT devices become more integrated into the power grid, the risk of cyberattacks increases. A coordinated attack could manipulate energy flows, cause cascading failures, disrupt power to critical infrastructure, and damage the grid infrastructure.

What are two common issues in distributed systems? Common Problems to solve in Distributed Systems High Latency: Network latency can slow down a distributed system, and the overall system throughput can be limited by the slowest node. Inconsistent Data: In a distributed system there can be inconsistencies when nodes have different versions of the same data.

What are the barriers to distributed generation utilization? The barriers that prevent distributed generation from being more widely adopted include the reduction of reliability of power supply to consumers, reduction of power quality due to harmonic distortions caused by the use of low-frequency inverters, and the limited possibility to control distributed generation plants and ...

What are the technical impacts of distributed generation? The effects of distributed generation are: short circuit levels are increased, load losses change, voltage profiles change along the network, voltage transients will appear, congestions can appear in system branches, power quality and reliability may be affected and the networks protections may not function properly.

What is the grid integration? Grid integration is the process of incorporating new generation into an existing power system. The process involves understanding complex power grids and how they balance electricity supply and demand, along with evaluating how the integration of variable renewable energy will impact those grids.

What are the challenges of grid modernization?

What are the disadvantages of on grid systems? Disadvantages of on-grid systems They can't produce solar energy and reduce your power bill at night-time or when there's no sunlight.

How does distributed generation help the grid? Distributed generation helps strengthen grid resiliency, decrease the environmental impact of electricity generation and increase energy efficiency. It is also known as dispersed generation or onsite generation.

What are examples of distributed generation?

What is distributed generation interconnection? DG systems allow customers to produce some or all of the electricity they need. The electricity a customer uses (e.g. for HVAC, consumer electronics, lights) is their electric load. By generating a portion or all of the electricity a customer uses, the customer can effectively reduce their electric load.

What are the limitations of distributed generation?

What are the disadvantages of DG? Diesel generators are made up of large, heavy components that might be costly to fix. Even though the installation cost is lower, it may take longer and be more expensive. Noise pollution is a serious problem. Because diesel engines may be somewhat noisy, they're frequently located away from work areas.

What is a major disadvantage of a distributed system? One of the main challenges is the complexity of designing and managing such systems. Coordinating and synchronizing different components can be difficult, and ensuring consistency across all nodes can be a complex task. Another disadvantage is the increased network overhead.

What are the effects of distributed generation on distribution systems? The effects of distributed generation are: short circuit levels are increased, load losses change, voltage profiles change along the network, voltage transients will appear, congestions can appear in system branches, power quality and reliability may be affected and the networks protections may not function properly.

What does distributed generation do? Distributed generation is the term used when electricity is generated from sources, often renewable energy sources, near the point of use instead of centralized generation sources from power plants.

What is the impact of distributed generation on distribution feeder protection? As a result of the fault current increase in distribution networks, DG units reduce the contribution of the system's fault current which in turn causes the protection system to be blinded.

What is the grid in distribution system? Distribution grid refers to the final stage of the electrical grid which distributes electricity to homes, industry, and other end users. Distribution both delivers the electric power to the every user on the grid and once delivered, it also reduces power to safe customer-usable levels.

Tribology in Engineering: Applications and Impact

1. What is Tribology? Tribology is the science and engineering of interacting surfaces in relative motion. It encompasses friction, wear, lubrication, and surface damage.

2. Why is Tribology Important in Engineering? Tribology affects the efficiency, reliability, and durability of engineering systems, such as engines, turbines, gears, and bearings. Poor tribological practices can lead to increased wear and energy losses, shortened equipment life, and even catastrophic failures.

3. What are the Key Tribological Variables? Critical tribological variables include:

- Surface roughness
- Material properties
- Lubrication conditions
- Operating temperature
- External loads and stresses

4. How is Tribology Applied in Engineering? Tribology principles are used in:

- Designing materials and surfaces with improved wear resistance
- Selecting and optimizing lubricants for specific applications
- Developing coatings and treatments to reduce friction and wear
- Monitoring and diagnosing tribological problems

5. What is the Future of Tribology in Engineering? Emerging areas of research include:

- Nanotribology: Studying interactions at the nanoscale
- Biotribology: Applying tribology principles to biomedical systems
- Green tribology: Developing environmentally friendly lubricants and materials Tribology continues to play a pivotal role in advancing engineering systems and improving their performance, safety, and sustainability.

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