

COMPUTER NOTES CLASS 9

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What is computer system class 9 short notes? A computer along with additional hardware and software together is called a computer system. A computer system primarily comprises a central processing unit (CPU), memory, input/output devices and storage devices. All these components function together as a single unit to deliver the desired output.

What is the introduction to computer system class 9th? The main parts of a computer are- CPU, Monitor, Keyboard and the Mouse. CPU works as the heart and brain of the computer. It helps in processing all the commands that the user gives. The commands processed by the CPU are displayed on the monitor.

How does a computer work for class 9? Storage: The computer keeps the information in its memory and processes it as needed. Input: The computer takes data as input and processes it. Processing: After taking the input, the computer transforms data into a computer-readable format. Output: The computer then produces the output after processing the input.

What are the types of computer for Class 9? There are five main kinds of computers based on size: PC (Personal Computer), minicomputer, microcomputers, supercomputers, and mainframe. Additionally, there are three different kinds of computers based on their capacity to manage data: A computer can be digital, hybrid, or analog.

What are the basic parts of computer class 9th? Central Processing Unit (CPU) It comprises three major components of the computer which have been discussed above: Memory Unit. Control Unit. Arithmetic and Logical Unit.

What is computer software class 9? Software is that set of data or instructions that we provide to our computer so that our work can be done effectively. For the work to be done properly, we are provided with software with the help of which the instruction for a specific work can be given to the computer.

What is AI class 9? AI stands for artificial intelligence, which is the ability of machines or software to perform tasks that normally require human intelligence, such as reasoning, learning, problem-solving, or understanding natural language.

How do I start my computer class 9?

What is laptop computer class 9? A laptop, sometimes called a notebook computer by manufacturers, is a battery- or AC-powered personal computer (PC) smaller than a briefcase. A laptop can be easily transported and used in temporary spaces such as on airplanes, in libraries, temporary offices and at meetings.

What is computer system short answers? A computer system is a set of integrated devices that input, output, process, and store data and information. Computer systems are currently built around at least one digital processing device. There are five main hardware components in a computer system: Input, Processing, Storage, Output and Communication devices.

What is computing system short? Definitions of computing system. noun. a system of one or more computers and associated software with common storage. synonyms: ADP system, ADPS, automatic data processing system, computer system.

What is the computer system in a short paragraph? A computer is a machine that can be programmed to automatically carry out sequences of arithmetic or logical operations (computation). Modern digital electronic computers can perform generic sets of operations known as programs. These programs enable computers to perform a wide range of tasks.

What is the computer system and explain it? A computer system is a setup that consists of both hardware and software components organised to perform complex operations. These components include the central processing unit, memory, input devices, output devices and the operating system.

The Art of Conversation: Change Your Life with Confident Communication

Conversation is an essential skill that can transform your life. By mastering the art of engaging in meaningful and effective conversations, you can build stronger relationships, advance your career, and unlock new opportunities.

What is Confident Communication?

Confident communication is not about talking over others or dominating conversations. It's about expressing yourself clearly and assertively while respecting the views of others. It involves:

- Maintaining eye contact and an open body language
- Speaking clearly and concisely
- Actively listening and understanding perspectives
- Being respectful and acknowledging different opinions

How Can Confident Communication Change My Life?

Confident communication can have a profound impact on various aspects of your life, including:

- **Relationships:** It can strengthen bonds, resolve conflicts, and foster deeper connections.
- **Career:** It can boost your credibility, open doors to new opportunities, and enhance your negotiation skills.
- **Personal growth:** It can build your self-esteem, increase your confidence, and empower you to express your thoughts effectively.

How Can I Improve My Conversational Skills?

Improving your conversational skills requires practice and intention. Here are some helpful tips:

- **Be present:** Pay attention to the conversation and avoid distractions.

- **Ask open-ended questions:** Encourage others to share their thoughts and perspectives.
- **Listen actively:** Engage with the speaker, ask clarifying questions, and show that you're invested in the conversation.
- **Speak clearly and concisely:** Organize your thoughts, use specific language, and avoid rambling.
- **Respect diversity:** Acknowledge and appreciate different opinions, even if you don't agree with them.

Frequently Asked Questions

- **What if I'm shy or nervous about speaking up?** Start small. Practice having conversations with trusted friends or family members. Gradually increase the level of difficulty as you become more comfortable.
- **How can I avoid dominating conversations?** Be mindful of your tone and body language. Allow others to share their thoughts and ideas, and avoid interrupting excessively.
- **What should I do if I disagree with someone?** Express your opinion respectfully. Explain your reasoning clearly and be open to considering other perspectives.
- **How can I build rapport with someone I'm meeting for the first time?** Find common ground by asking questions about their interests or experiences. Use active listening and show genuine interest in what they have to say.

How do you calculate heat transferred to a solution? The heat transfer formula can be expressed as $Q = m \times c \times \Delta T$, where Q refers to the heat transferred, m is mass, c is the specific heat and ΔT is the temperature difference.

Is heat transfer a hard subject? Heat Transfer: This course is an extension of thermodynamics and involves the study of various heat transfer mechanisms, such as conduction, convection, and radiation. It can be challenging due to the integration of mathematical concepts, empirical correlations, and the understanding of physical phenomena.

What is the basic formula for heat transfer? The heat transfer formula through conduction is given by: $Q/t = kA((T_1-T_2)/l)$, where Q/t is the rate of heat transfer, k is the thermal conductivity of the material, A is the cross-sectional area, T_1-T_2 is the temperature difference, and l is the thickness.

What is the equation for the heat transfer? $Q = c \times m \times \Delta T$ ΔT = Change in temperature of the system. The transfer of heat occurs through three different processes, which are mentioned below. Radiation.

How do you calculate heat in a solution? Flexi Says: The molar heat of solution can be calculated using the formula: $q = m \times C \times \Delta T$ where: - q is the heat absorbed or released during the process (in joules or calories), - m is the mass of the solvent (in grams), - C is the specific heat capacity of the solvent (in joules per gram per degree Celsius or ...

What formula is $q = mc \Delta T$?

What are the 4 types of heat transfer? Heat is transferred to unburned fuels by four methods: convection, radiation, conduction and mass transport. Convection is the upward movement of heated smoke, gases and air. It causes fuels to become preheated up-slope or downwind from a fire.

What is the hardest engineering degree in the world? Biomedical Engineering
Biomedical Engineering is often regarded as the hardest engineering majors due to its broad, interdisciplinary nature, combining diverse fields and extensive memorization of biological concepts.

What is the easiest engineering major?

What is the basic rule of heat transfer? According to the second law of thermodynamics, heat will automatically flow from points of higher temperature to points of lower temperature. Thus, heat flow will be positive when the temperature gradient is negative. The basic equation for one-dimensional conduction in the steady state is: $q_k = -kA (dT/dx)$ " 13.

What are the 3 formulas of heat?

What is a \dot{q} in heat transfer? where \dot{Q} is heat transfer rate, h is the heat transfer coefficient, A is the surface area where energy transfer is taking place and ΔT is the appropriate surface to fluid temperature difference.

What is k in heat transfer? The thermal conductivity coefficient k is a material parameter depending on temperature, physical properties of the material, water content, and the pressure on the material [3]. The coefficient k is measured in watts per meter Kelvin (or degree) (W/mK).

What is C in heat transfer? Heat Transfer and Temperature Change The symbol c stands for the specific heat (also called “specific heat capacity”) and depends on the material and phase. In the SI system, the specific heat is numerically equal to the amount of heat necessary to change the temperature of 1.00 kg of mass by 1.00 °C .

What are 3 types of heat? There are three types of heat energy transfer, namely, conduction, convection, and radiation. Conduction requires direct contact. Convection involves the movement of large fluid masses. Lastly, radiation is the transfer of energy through electromagnetic waves.

How do you calculate heat equation? We wish to determine the value of Q - the quantity of heat. To do so, we would use the equation $Q = m \cdot C \cdot \Delta T$. The m and the C are known; the ΔT can be determined from the initial and final temperature. With three of the four quantities of the relevant equation known, we can substitute and solve for Q .

What is ΔH ? We define the enthalpy change (ΔH) as the heat of a process when pressure is held constant: The letter H stands for “enthalpy,” a kind of energy, while the Δ implies a change in the quantity. We will always be interested in the change in H , rather than the absolute value of H itself.

What is an example of a heat of solution? Heats of solution are not constant but generally vary with concentration of the components. For example, when HC_1 is dissolved in water $\Delta H/m$ changes from -17.9 to -17.4 kcal/mol as one proceeds from unit molality to infinite dilution.

How to calculate specific heat? Specific heat can be calculated without directly using joules by using the formula: $c = Q / (m * \Delta T)$ where: c = specific heat Q = heat energy transferred (which can be in units other than joules, such as calories) m = mass of the substance ΔT = change in temperature Remember to use consistent units in the formula.

How to calculate joules of heat? Multiply the mass of the object by its specific heat capacity and by the amount of temperature change. This formula is written $H = mc\Delta T$, where ΔT means "change in temperature." X Research source For this example, this would be $500g \times 4.19 \times 20$, or 41,900 joules.

How to calculate heat energy change? The quantitative relationship between heat transfer and temperature change contains all three factors: $Q = mc\Delta T$, where Q is the symbol for heat transfer, m is the mass of the substance, and ΔT is the change in temperature. The symbol c stands for specific heat and depends on the material and phase.

What are the 3 C's of heat transfer? The process of heat transmission can take place through solid substances (conduction), or via fluids such as liquids and gases (convection). Alternatively, it can occur through the propagation of electromagnetic waves (radiation).

What is the basic law of heat transfer? The basic law governing heat conduction is Fourier's Law. In a one-dimensional form, the Fourier's law can be written as: $q = -k \Delta T / L$, where ΔT is the temperature difference, k is the thermal conductivity and L is the thickness of the material. Material with higher thermal conductivity will transfer heat faster.

What stops heat transformation? Insulation helps to prevent that transfer of heat. Many different materials are used for insulation. Engineers often use fiberglass, wool, cotton, paper (wood cellulose), straw and various types of foams to insulate buildings. A layer of trapped air can serve as insulation, too!

Which is the rarest engineering course?

Which engineering has the highest salary?

What is the easiest branch of engineering? While civil and industrial engineering are said to be 'easier' — with chemical, biomedical, and aerospace engineering on the opposite end of the spectrum of difficulty — it is crucial to prioritize personal interest and aptitude over the perceived difficulty of various majors.

What is the lowest paying engineering degree? The Lowest Paying: Biological Engineering, Architectural Engineer, and General Engineering.

Which engineering is easiest with a high salary? However, certain fields like Computer Science and Engineering (CSE), Information Technology (IT), Electronics and Communication Engineering (ECE), and Mechanical Engineering are known for lucrative salaries and can be perceived as more manageable for students with specific skill sets.

What is the most fun engineering major?

How is heat transfer calculated for a substance? The quantitative relationship between heat transfer and temperature change contains all three factors: $Q = mc\Delta T$, where Q is the symbol for heat transfer, m is the mass of the substance, and ΔT is the change in temperature. The symbol c stands for specific heat and depends on the material and phase.

How do you calculate heat absorbed or evolved by a solution? The heat released or absorbed in a reaction is calculated using the formula $q = mc\Delta T$, where ' q ' represents the heat energy, ' m ' is the mass of the substance, ' c ' is the specific heat capacity of the substance, and ' ΔT ' is the change in temperature.

What is the formula for the heat transferred to water? The heat transfer formula is $Q = M \times C_p \times \Delta T$. - ΔT is the temperature difference between entering and leaving fluid (°F) For water, with a C_p of 1 Btu/lb/°F and 8.34 lb/gal x 60 minutes/hr = 500.4 lb/hr per GPM, the heat transfer formula simplifies to $\text{Btu/hr} = \text{GPM} \times 500 \times \Delta T$.

What is the formula for the heat capacity of a solution? Know the heat capacity formula. Heat Capacity of an object can be calculated by dividing the amount of heat energy supplied (E) by the corresponding change in temperature (T). Our equation is: $\text{Heat Capacity} = E / T$.

How to do heat calculations? We wish to determine the value of Q - the quantity of heat. To do so, we would use the equation $Q = m \cdot C \cdot \Delta T$. The m and the C are known; the ΔT can be determined from the initial and final temperature. With three of the four quantities of the relevant equation known, we can substitute and solve for Q.

How do you calculate overall heat transfer? Ways Of Calculating Heat Transfer Coefficients It is frequently determined by dividing the convection fluid's thermal conductivity by a length scale. The Nusselt number is frequently used to determine the heat transfer coefficient. This Nusselt number is a dimensionless number.

What is the formula for the number of heat transfer units? (ii) The number of transfer unit is: $NTU_{OG} = \frac{1}{(1 - \frac{1}{A})} \ln \left[\frac{(1 - \frac{1}{A}) y_1 y_2 + 1}{A} \right]$ $A = L \cdot G \cdot m = 2928 \cdot 25.4 \times 55.2 = 2.09$. $NTU_{OG} = \frac{1}{(1 - \frac{1}{2.09})} \ln \left[\frac{(1 - \frac{1}{2.09}) 0.08 \cdot 0.0018 + 1}{2.09} \right]$ $NTU_{OG} = 6.07$.

How to calculate the amount of heat absorbed by a solution? Flexi Says: The heat absorbed by a calorimeter can be calculated using the formula: $q = mc\Delta T$ where: - q is the heat absorbed, - m is the mass of the substance, - c is the specific heat capacity of the substance, and - ΔT is the change in temperature.

What is the formula for calculating heat evolved? In order to calculate heat evolved in a reaction, you need to multiply the specific heat of the substance by the mass and the temperature change which occurred. The specific heat is the amount of energy (heat) that needs to be supplied to raise the temperature of 1 gram of a substance by 1 degree Celsius.

What is an example of the heat of solution? For example, the heat of solution of sulphuric acid (H₂SO₄) in water is +75 000 J (the plus sign denoting that heat is evolved); the heat of solution of ammonium chloride (NH₄Cl) is - 16 500 J (the minus sign shows that heat is absorbed).

What is the formula for calculating heat transfer? $Q = m \cdot c \cdot \Delta T$
Here, Q is the heat supplied to the system, m is the mass of the system, c is the specific heat capacity of the system and ΔT is the change in temperature of the system. The transfer of heat occurs through three different processes which are, Conduction, Convection, and Radiation.

How do you calculate heat transfer between two liquids? We know that heat transfer is calculated by equation $Q = m \times C_p \times \Delta T$. Imagine I have 2 cups with water with same masses(volume).

How to find the change in temperature with specific heat? Step 3: To find the change in temperature, divide the heat energy by the mass and the specific heat capacity of the substance. $\Delta T = \frac{q}{m \times c} = \frac{5400 \text{ J}}{75.0 \text{ g} \times 0.753 \text{ J/g}^\circ\text{C}} = 95.6^\circ\text{C}$
The temperature change for glass is approximately 95.6°C .

What instrument is used when measuring heat transfer? A calorimeter is a device that is used to measure the amount of heat involved in a chemical or physical process.

How to convert temperature to energy? Temperature is not directly converted to Energy rather Temperature gradient i.e. difference in temperatures is used to generate energy. Ocean thermal energy is a best example which makes use of temperature gradient between surface layer water temperature and the water deep within the ocean or sea.

How to calculate heat change? The equation for the amount of heat, Q , required to change the temperature of an object in a single phase is $Q = m c \Delta T$, where m is the mass of the substance, c is the specific heat capacity of the substance, and ΔT is the change in temperature of the substance.

What is playbook in cloud computing? Playbooks are the predefined steps to perform to identify an issue. The results from any process step are used to determine the next steps to take until the issue is identified or escalated. For example, you could define a playbook for network connectivity issues to an application.

What is cloud in cloud computing? The cloud is an extensive network of remote servers around the world. These servers store and manage data, run applications, and deliver content and services like streaming videos, web mail, and office productivity software over the internet.

What are the different types of cloud models in cloud computing? So, what are the main types of cloud computing models and how do you know which is right for

you? The main three types of cloud computing are public cloud, private cloud, and hybrid cloud.

What is a playbook and what is it used for? A business playbook is a very simple type of document that brings together a company's processes, practices and policies. Also known as a corporate or company playbook, the business playbook makes the company's processes explicit and records them for anyone to learn from.

What are playbooks used for? Playbooks are tools used by cybersecurity professionals to identify and respond to security issues. In this reading, you'll learn more about playbooks and their purpose in the field of cybersecurity. A playbook is a manual that provides details about any operational action.

What is an example of cloud computing? Emails, calendars, Skype, and WhatsApp are cloud computing examples that we use every single day. They make use of the cloud feature of remote accessibility of data to support our data in the cloud infrastructure, helping us access them thru the Internet anytime, anywhere.

What is cloud computing for beginners? Cloud Computing is a network of remote servers hosted on the internet for storing and retrieving data. The cloud provides a number of IT services such as servers, databases, software, virtual storage, and networking, among others. Companies that offer all the services are called cloud providers.

What cloud computing really means? Cloud computing is the on-demand delivery of computing services such as servers, storage, databases, networking, software, and analytics. Rather than keeping files on a proprietary hard drive or local storage device, cloud-based storage makes it possible to save remotely.

What are the 3 common cloud models?

Which cloud provider is best?

What are the biggest cloud providers? Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP) are the big three cloud service providers today. Together, they take up 66% of the worldwide cloud infrastructure market, an increase from 63% the previous year, according to Synergy Research Group.

What is a playbook in SaaS? A SaaS playbook includes everything a sales rep needs to be successful. This will include sales process, outbound sales campaigns, sales tools and templates, content, media, training and coaching. Playbooks are an essential tool for every SaaS company as studies show Reps who use playbooks sell more.

What is playbook in Azure? Technically, a playbook template is an Azure Resource Manager (ARM) template, which consists of several resources: an Azure Logic Apps workflow and API connections for each connection involved. This article focuses on deploying a playbook template from the Playbook templates tab under Automation.

What is a playbook in SOC? What is a SOC Playbook? A SOC playbook is a step-by-step guide designed to help security analysts navigate and manage security incidents effectively. It outlines the procedures to follow, tools to use, and people to involve during an incident.

What is a playbook in DevOps? The Playbook Approach is a method for enhancing process efficiency in the DevOps Capable Resource (formation) and the DevOps Capable Team (formation). It involves writing scripts to provision new service account identities and automating application and environment promotion using pipelines.

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