

COMPUTER ARCHITECTURE GATE QUESTION AND ANSWER

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What is gate level in computer architecture? In general, gate-level modeling is used for implementing lowest level modules in a design like, full-adder, multiplexers, etc. nmos Inverter : The logic symbol and truth table of ideal inverter is shown in figure given below. Here A is the input and B is the inverted output represented by their node voltages.

What type of questions are asked in GATE exam? There are three types of questions asked in the GATE exam namely Multiple-Choice Questions (MCQs), Multiple Select Questions (MSQs), Numerical Answer Type Questions (NAT). Every question will be of either 1 or 2 marks. 2 marks question generally more difficult and lengthier.

Who developed the basic architecture of computer MCQ? Answer: D) John Von Neumann.

Which of the following is a type of computer architecture and its subcategories? All of the mentioned: Microarchitecture, Instruction Set Architecture, and Systems design are subcategories of computer architecture.

What are the different types of gates in computer architecture? There are seven basic logic gates: AND, OR, XOR, NOT, NAND, NOR and XNOR. The AND gate is named so because, if 0 is false and 1 is true, the gate acts in the same way as the logical "and" operator. The following illustration and table show the circuit symbol and logic combinations for an AND gate.

What is AND gate in computer architecture? The AND gate is a basic digital logic gate that implements logical conjunction (∧) from mathematical logic – AND gate behaves according to the truth table. A HIGH output (1) results only if all the inputs to the AND gate are HIGH (1). If not all of the inputs to the AND gate are HIGH, a LOW output results.

Which GATE exam is most difficult? CSE (Computer Science and Engineering) is regarded as one of the most difficult papers in the GATE exam. Most applicants who wish to take the GATE CSE test should begin studying early in order to achieve a higher score and should devise a suitable GATE CSE preparation strategy.

Can you prepare for a GATE test? How can I prepare my child for the GATE test?
A: Familiarize your child with the test format, practice sample questions, and encourage critical thinking and problem-solving skills. Regular reading and discussing a variety of topics can also be beneficial.

What happens if you pass the GATE test? Students passing the test can receive college elective credit that will transfer to most universities. Why should I put my child in the GATE program? If your child is gifted, it means they have the capacity to easily acquire content that is complex.

Who is the father of computer architecture? Charles Babbage KH FRS (/ˈbæbʒdʒ/; 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".

What is computer architecture also known as? Computer Architecture is also called Instruction Set Architecture (ISA). Computer Organization is frequently called microarchitecture. 8. Computer Architecture comprises logical functions such as instruction sets, registers, data types, and addressing modes.

What is the basic architecture of a computer? The main components of a computer architecture are the CPU, memory, and peripherals. All these elements are linked by the system bus, which comprises an address bus, a data bus, and a control bus.

What are the 5 types of computer architecture? Major types of computer architecture include Von Neumann, Harvard, Modified Harvard, RISC, and CISC architectures. Understanding computer architecture enables efficient design and development of computing systems, ensuring smooth operations and meeting user requirements.

What are the 4 layers of computer architecture? Explanation: The layers of computer architecture are the hardware, operating system, software, and user layers.

What is the CPU design in computer architecture? CPU design is divided into multiple components. Information is transferred through datapaths (such as ALUs and pipelines). These datapaths are controlled through logic by control units. Memory components include register files and caches to retain information, or certain actions.

What is meant by gate level? Gate level modeling is virtually the lowest level of abstraction because the switch-level abstraction is rarely used. Gate level modeling is used to implement the lowest-level modules in a design, such as multiplexers, full-adder, etc. Verilog has gate primitives for all basic gates.

What is a level gate? Level gate enables the movement of transporters with free space navigation between different levels. Pedestrians cannot move via level gates. Level gates always operate in pairs.

What is a gate in architecture? A gate or gateway is a point of entry to or from a space enclosed by walls. The word derived from old Norse "gat" meaning road or path; But other terms include yett and port. The concept originally referred to the gap or hole in the wall or fence, rather than a barrier which closed it.

What is level of a gate network? This network is illustrated in Figure 4.19(a), and its basic use is to form a two-level sum-of-products. The network generates the OR function either by commoning the inputs to each AND gate (Figure 4.19(b)) or, better, by connecting one of each AND gate's inputs to logic 1 level.

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What is the relationship between job satisfaction and job performance quizlet? Both variables indirectly influence each other. Higher levels of job performance lead to higher job satisfaction.

Is there a connection between job satisfaction and productivity in the organization? Studies have long shown a direct connection between employee satisfaction levels and productivity. When employees feel valued and satisfied, they take pride in their work resulting in greater productivity and better business outcomes. However, these outcomes don't happen by chance.

How does motivation link to job satisfaction and money? If your employees like what they are doing, they will walk that extra mile because they are motivated. Knowing why they are doing it. As mentioned before employee motivation and job satisfaction are linked and if your employees are driven by positive motivation they will be more satisfied with their work situation.

What is the interrelationship between job performance and job satisfaction? Job satisfaction is vital to employees' overall well-being and organisational performance. It encompasses various aspects of an individual's experience, including their perception of the work environment, daily tasks, management's role,

and relationships with colleagues.

What is connection between the job satisfaction and motivation How important is job satisfaction in today's workplace? The terms "job satisfaction" and "motivation" have, in my experience, become used interchangeably. There is a difference. Job satisfaction is an individual's emotional response to his or her current job condition, while motivation is the driving force to pursue and satisfy one's needs.

What is the connection between motivation and job satisfaction or between motivation and performance? Motivated employees tend to be more satisfied with their work, and vice versa. According to the job characteristics theory, motivation and satisfaction depend on how well the work meets five core dimensions: skill variety, task identity, task significance, autonomy, and feedback.

What is the link between job satisfaction and job performance? Several studies have shown that satisfied employees are more productive than dissatisfied ones. They are more focused and committed to their work, and they are able to work well in teams. In addition, satisfied employees are more loyal to their employer and will promote the company's mission.

How does motivation affect job satisfaction and employee productivity? Motivation and job satisfaction are the most significant elements for all organization public or a private zone. Satisfied and motivated employees become more involved and committed to their tasks and assignments and work hard for the achievement of organizational goals.

What are the three outcomes of job satisfaction? Three primary outcomes of job satisfaction are performance levels, retention rates, and employee well-being. Job satisfaction directly correlates with performance levels. Higher job satisfaction leads to better performance at work. Retention rates are influenced by job satisfaction.

How is job satisfaction and job engagement related to motivation? Additionally, an employee can be highly motivated but not satisfied with the job. They might find the work interesting and challenging, but if they worry too much about job security or think they can be paid more at a different company, they will not be satisfied. Both factors are key components of employee engagement.

What is the theory of job satisfaction and motivation? Frederick Herzberg theorized that employee satisfaction has two dimensions: “hygiene” and motivation. Hygiene issues, such as salary and supervision, decrease employees' dissatisfaction with the work environment. Motivators, such as recognition and achievement, make workers more productive, creative and committed.

What is Maslow's theory of motivation and job satisfaction? Maslow proposed that motivation is the result of a person's attempt at fulfilling five basic needs: physiological, safety, social, esteem and self-actualization. According to Maslow, these needs can create internal pressures that can influence a person's behavior.

What is the relationship between job satisfaction and productivity? Satisfied employees tend to be more engaged, productive, and committed to company goals. High satisfaction levels contribute to lower turnover rates, combatting the high cost of hiring.

What is the correlation between job satisfaction and performance is? Satisfied employees tend to be more engaged, committed, and proactive in their roles, leading to higher levels of performance. Job satisfaction can be influenced by factors such as work-life balance, job design, relationships with colleagues and supervisors, and opportunities (Katebi et al., 2022) .

What are the three most important factors that make people dissatisfied with their job?

Is there a relationship between job satisfaction and job performance? Satisfied employees tend to be more engaged, committed, and proactive in their roles, leading to higher levels of performance. Job satisfaction can be influenced by factors such as work-life balance, job design, relationships with colleagues and supervisors, and opportunities (Katebi et al., 2022) .

What is the relationship between employee satisfaction and employee performance? Employees perceive the meaning of their work when they are satisfied with their jobs. Workers who understand how their positions affect others perform better because they have faith in their ability to complete work-related tasks.

Which of the following best describes the relationship between job satisfaction and job performance? The correct answer is C) Job satisfaction increases job performance, which in turn increases leadership opportunities within a company. The statement that best illustrates a recursive relationship is "Job satisfaction increases job performance, which in turn increases leadership opportunities within a company."

What is the relationship between job satisfaction and performance appraisals? Earlier studies have shown that performance related pay is associated with higher levels of overall job satisfaction. Thus, performance appraisal system integrated with better human resource practices will enhance performance appraisal satisfaction and also increase employee job satisfaction.

Can stress cause psychosomatic symptoms? Psychosomatic disorders resulting from stress may include hypertension, respiratory ailments, gastrointestinal disturbances, migraine and tension headaches, pelvic pain, sexual dysfunction, dermatitis, and ulcers. Fatigue and insomnia may also occur.

What are 5 psychosomatic responses to stress?

How to reduce psychosomatic stress?

What is the best therapy for psychosomatic symptoms? Cognitive Behavior Therapy (CBT) is often the treatment of choice for a psychosomatic disorder. This therapy helps patients learn new ways to cope with and solve their problems as they gain a deeper understanding of their condition or circumstances.

Which emotion is at the root of most psychosomatic disorders? A disorder of both mind and body where physical symptoms develop from mental factors. Severe cases can grow from depression, anxiety or stress and manifest into severe physical symptoms or diseases.

Can mental illness be triggered by stress? When stress becomes overwhelming and prolonged, the risks for mental health problems and medical problems increase. Long-term stress increases the risk of mental health problems such as anxiety and depression, substance use problems, sleep problems, pain and bodily complaints such as muscle tension.

What illnesses are caused by stress? Chronic stress is linked to other conditions, both psychological and physical. These can include: Diseases such as hypertension, heart disease, obesity and metabolic syndrome, Type II diabetes, and arthritis.

What is the root of psychosomatic? Psychosomatic originally used to describe the relationship between the body and the mind, and it comes from the merging of two Greek words, psykhe, mind, and somatikos, "body." A psychosomatic illness is triggered or made worse by a mental issue; the body gets worn down by things like constant worry and stress.

What are 15 common psychological symptoms of stress?

What makes psychosomatic disorders worse? Psychosomatic refers to physical symptoms that are worsened or complicated by mental factors. In a psychosomatic illness, emotional stress or other psychological problems play key roles in the course of the physical signs and symptoms.

What is the most common psychosomatic pain? Types of psychosomatic pain include: Headaches. Stomach aches. Muscle pain. Back pain.

Does psychological stress go away? Once the pressure or threat has passed, stress hormones will usually return to normal. But, if you're constantly under stress, these hormones will stay in your body. This can lead to the symptoms of stress. Stress can affect your overall health if it isn't addressed.

What is the best medication for psychosomatic disorder? Amitriptyline, selective serotonin reuptake inhibitors, and St. John's wort are effective pharmacologic treatments for somatic symptom disorder.

How do you tell if your symptoms are psychosomatic?

How can you tell if you have stress overload? Feeling overwhelmed or on edge. Trouble keeping track of things or remembering. Trouble making decisions, solving problems, concentrating, getting your work done.

How to heal psychosomatic illness?

What are the 7 psychosomatic? Alexander (1950) used the term psychosomatic when pointing out how psychological factors could precipitate or aggravate seven specific diseases, called "the holy seven", i.e., peptic ulcer, bronchial asthma, rheumatoid arthritis, ulcerative colitis, essential hypertension, neurodermatitis and thyrotoxicosis (4).

Does psychosomatic mean it's all in your head? "Psychosomatic" is a term usually meant to imply that a person has psychological symptoms that in some way cause physical symptoms. As a result, there is a general impression, even among clinicians, that psychosomatic illnesses are essentially in the patient's head. And yet, "psychosomatic" illnesses are quite common.

What is the hardest mental illness to live with?

Why am I so stressed all the time for no reason? If you believe you are stressed for "no reason," it may be because you have been ignoring, either consciously or subconsciously, your stress. There is likely something in your life, either happening presently or in the recent past, that feels like a greater demand than you feel prepared to handle.

Which psychological condition may result from stress? Psychological symptoms Stress can lead to emotional and mental (psychological) symptoms, like: Anxiety or irritability. Depression. Panic attacks.

What are psychophysiological symptoms of stress?

Can stress cause real symptoms? Stress can cause many different symptoms. It might affect how you feel physically, mentally and also how you behave. It's not always easy to recognise when stress is the reason you're feeling or acting differently.

Can stress cause neurological symptoms? Symptoms of functional neurologic disorder may appear suddenly after a stressful event, or with emotional or physical trauma. Other triggers may include changes or disruptions in how the brain functions at the structural, cellular or metabolic level. But the trigger for symptoms can't always be identified.

Can you stress yourself into symptoms? But long-term stress can cause physical, emotional and behavioral symptoms. It's important to get control over your chronic stress because it can lead to other health issues. If symptoms of stress aren't going away with stress relief techniques and if you're feeling overwhelmed, talk to a healthcare provider.

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