

COMPUTER MCQ QUESTIONS AND ANSWERS PDF IN GUJARATI

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

Which of the following is the correct definition of computer Mcq? Computer is a machine that can process information. Computer is an electronic device that can store, retrieve and process both qualitative and quantitative data quickly and accurately.

What is used in computer for communication purposes MCQ? TCP/IP (Transmission Control Protocol/Internet Protocol) is the fundamental protocol suite for internet and network communication.

Who is the father of computer Mcq? The correct answer is Charles Babbage. Charles Babbage is known as the father of computers.

How to set MCQ questions?

How many types of computer MCQs? Explanation: There are three types of computers basically on the basis of operation: Analog, Digital and Hybrid.

Which is the brain of a computer? The CPU is the brain of a computer, containing all the circuitry needed to process input, store data, and output results. The CPU is constantly following instructions of computer programs that tell it which data to process and how to process it.

What are the basic questions of computers?

What are five main components of a computer system MCQ?

What is a MCQ meaning? A multiple-choice question (MCQ) is composed of two parts: a stem that identifies the question or problem, and a set of alternatives or possible answers that contain a key that is the best answer to the question, and several distractors that are plausible but incorrect answers to the question.

What is MCQ in programming? Programming MCQs (Multiple Choice Questions) For Exams, Interviews | Outscal.

What is MCQ short for? Multiple choice (MC), objective response or MCQ (for multiple choice question) is a form of an objective assessment in which respondents are asked to select only correct answers from the choices offered as a list.

What is MCQ full for? The full form of MCQ is "Multiple Choice Question."

What is motion detection using background subtraction techniques? In this method, the presence of moving objects is determined by comparing 2 successive frames. The previous frame is compared and then subtracted with the current frame. This allows us to obtain only those areas in the scene where motion is detected.

What is background subtraction algorithm in image processing? Background subtraction is a widely used approach for detecting moving objects in videos from static cameras. The rationale in the approach is that of detecting the moving objects from the difference between the current frame and a reference frame, often called "background image", or "background model".

What is the background subtraction algorithm for video? Background subtraction algorithms evaluate a scene and generate a mask containing only the foreground objects that do not belong to the background of the scene.

What is background subtraction camera movement? Background subtraction algorithms define the back- ground as parts of a scene that are at rest. Traditionally, these algorithms assume a stationary camera, and identify moving objects by detecting areas in a video that change over time.

What is object detection with background subtraction? Background subtraction is a computer vision technique used to separate the foreground objects from the background in images or videos. It is commonly used to improve object detection, especially for small and moving objects.

What is the main application of image subtraction? This is primarily done for one of two reasons – levelling uneven sections of an image such as half an image having a shadow on it, or detecting changes between two images. This method can show things in the image that have changed position, brightness, color, or shape.

What is adaptive background subtraction? A new method that considers both the shape context and lane context, called Adaptive Background Subtraction (ABS), eliminates user bias for more reproducible and less subjective estimation of image background.

What is background subtraction signal processing? The basic signal processing procedure for detecting people is shown in Figure 1: . Background subtraction is a technique for separating the foreground from the background, where walls or static objects correspond with the background, while the observed target corresponds with the foreground [17]. ...

How to do a subtraction algorithm? In all versions of the subtraction algorithm we write the larger number which we call the 'top number' above the smaller number which we call the 'bottom number'. When each digit in the 'bottom number' is less than or equal to the digit in the 'top number', you simply subtract in each column.

What is background subtraction frame difference method? Background subtraction method is a technique using the difference between the current image and background image to detect moving targets. Process flow chart is shown as Fig 1. The basic idea is the first frame image stored as a background image.

How to subtract background in ImageJ? Select Process>Math>Subtract and enter your mean background value into the value field on the window that appears. Click “OK” or select “Preview”. Removing noise Image noise tends to manifest as speckle and can be caused by: Electronic variations in imaging detectors.

What do you mean by motion detection? A motion detector is an electrical device that utilizes a sensor to detect nearby motion (motion detection). Such a device is often integrated as a component of a system that automatically performs a task or alerts a user of motion in an area.

What is motion detector in math? The Motion Detector is used to measure position, velocity, and acceleration of moving objects.

What is motion detection on Iphone? Motion Detector Camera is a camera surveillance app, that uses the built-in camera to detect movements in the surrounding area using an advanced motion detection algorithm. If it detects movement, it can sound beep to notify you.

What is background subtraction using Mog? Background Subtraction is a commonly used method to segment moving parts from static scenes (background and foreground). The moving regions which contain edges of vehicles are detected by subtracting the current frame of the video from a reference static background.

Statics 9th Edition Solutions: A Comprehensive Resource for Physics Students

Statics, the study of forces and their effects on stationary objects, is a fundamental concept in physics. For students studying this subject, "Statics 9th Edition" by Ferdinand P. Beer and E. Russell Johnston Jr. serves as a comprehensive and authoritative textbook. The book provides a thorough understanding of the principles of statics, backed by numerous examples and problem-solving exercises.

Question 1: Determine the resultant force acting on the body by calculating the vector sum of the forces 300 N at 30°, 150 N at 120°, and 200 N at 60°.

Answer: Using vector addition, the x-component of the resultant force is $300\cos 30^\circ + 150\cos 120^\circ + 200\cos 60^\circ = 127.3$ N. The y-component is $300\sin 30^\circ + 150\sin 120^\circ + 200\sin 60^\circ = 517.6$ N. The resultant force has a magnitude of ≈ 528.7 N and acts at an angle of $\approx 76.9^\circ$ with respect to the x-axis.

Question 2: A 10-kg block is suspended by a rope from the ceiling. The rope makes an angle of 30° with the ceiling. What is the tension in the rope?

Answer: The tension in the rope is equal to the weight of the block which is $mg = 10 \text{ kg} \times 9.81 \text{ m/s}^2 = 98.1 \text{ N}$. The tension can be resolved into horizontal and vertical components using trigonometry. The horizontal component balances the weight, and the vertical component is equal to the tension in the rope multiplied by the sine of the angle: $T \sin 30^\circ = 98.1 \text{ N}$, so $T = 196.2 \text{ N}$.

Question 3: A ladder leans against a smooth vertical wall. The coefficient of friction between the ladder and the floor is 0.5. What is the minimum angle the ladder can make with the floor without slipping?

Answer: For the ladder to not slip, the frictional force must be greater than or equal to the parallel component of the weight. $\mu N \geq W \sin \theta$, where μ is the coefficient of friction, N is the normal force, W is the weight, and θ is the angle. $N = W \cos \theta$, so $\mu W \cos \theta \geq W \sin \theta$. Solving for θ , we get $\tan \theta \leq \mu$, which means $\theta \leq \tan^{-1}(0.5) = 26.5^\circ$.

Question 4: A 100-kg beam is supported by a pin at one end and a cable at the other end. The cable is at an angle of 60° with the beam. What is the tension in the cable?

Answer: The equilibrium equations are $\sum F_x = 0$, $\sum F_y = 0$, and $\sum M_A = 0$, where A is the pin. The tension in the cable is T . The reactions at the pin are A_x and A_y . The moment equation gives $A_y \cdot 3 \text{ m} = T \cdot 4 \text{ m}$. Substituting this into the y-direction equation, we get $A_x = T/2$. The x-direction equation then gives $T = 100 \text{ kg} \times 9.81 \text{ m/s}^2 / 2 = 490.5 \text{ N}$.

Question 5: A crate is pushed up a ramp by a force of 200 N parallel to the ramp. The ramp is inclined at 30° with the horizontal. If the coefficient of kinetic friction is 0.2, what is the acceleration of the crate?

Answer: The weight of the crate is $W = mg$, where m is the mass. The parallel component of the weight is $W \sin 30^\circ$. The acceleration is a . The equations of motion are: $\sum F_x = ma$: $200 \text{ N} - 0.2W \sin 30^\circ = ma$ $\sum F_y = 0$: $N - W \cos 30^\circ = 0$ Solving for a , we get $a = 12.6 \text{ m/s}^2$.

How do I get started with fundamental analysis?

How to become a fundamental analyst?

What are the five steps of fundamental analysis?

How to get better at fundamental analysis?

Is fundamental analysis worth it? The main benefit of fundamental analysis is to help quantify the value of a company and its shares. Financial statements offer hard data that reveal insights into a company's profitability, liquidity, and overall financial stability.

Should I learn fundamental or technical analysis first? To begin a blended approach, you might initially gauge the intrinsic value of an asset through fundamental analysis. This involves evaluating financial statements, market trends, and other qualitative and quantitative factors. Later, technical analysis can be used to identify the best entry and exit points.

What is the salary of fundamental analyst? Average Annual Salary by Experience
Fundamental Analyst salary in India with less than 1 year of experience to 6 years ranges from ₹ 2.0 Lakhs to ₹ 12.0 Lakhs with an average annual salary of ₹ 6.8 Lakhs based on 67 latest salaries.

How long does it take to learn fundamental analysis? There is no fixed amount of time required for doing fundamental analysis of any stock. It will take as much time as it will take to: Understand the business of the company. Past record of the company (management) to execute that business model.

Which is the best institute for fundamental analysis? NIFM is the best institute for fundamental analysis training course in India to become a research analyst.

What is fundamental analysis for beginners? Fundamental analysis is one method and can be understood as a process used to assess an instrument's strength over a period of time and into the future. This could include examining related economic and financial factors such as a country's interest rate, inflation, microeconomic indicators, and consumer behavior.

What is an example of a fundamental analysis? For example, if you are buying HDFC Bank shares at Rs 2200, are you paying more or less compared to its true value. The answer to such questions can be received if you do fundamental analysis.

Fundamental analysis examines the key ratios of a business in a way to determine its financial health.

What is the formula for fundamental analysis? $\text{Assets} = \text{Liabilities} + \text{Shareholders' Equity}$ However, if the liabilities are higher, it is usually considered 'not worth investing'. For a deeper analysis of the balance sheet, various financial ratios, such as debt to equity ratio, return on equity, etc., are used.

What skills do you need for fundamental analysis? Fundamental analysis is an extremely comprehensive approach that requires a deep knowledge of accounting, finance, and economics. For instance, fundamental analysis requires the ability to read financial statements, an understanding of macroeconomic factors, and knowledge of valuation techniques.

How to learn technical and fundamental analysis? The best way to learn technical analysis is to gain a solid understanding of the core principles and then apply that knowledge via backtesting or paper trading. Thanks to the technology available today, many brokers and websites offer electronic platforms that offer simulated trading that resemble live markets.

How to pick a stock based on fundamentals?

What skills do you need for fundamental analysis? Fundamental analysis is an extremely comprehensive approach that requires a deep knowledge of accounting, finance, and economics. For instance, fundamental analysis requires the ability to read financial statements, an understanding of macroeconomic factors, and knowledge of valuation techniques.

What is the best way to learn fundamental and technical analysis? Build a Foundation. The first step in learning technical analysis is gaining a fundamental understanding of the core concepts, which is best accomplished by reading books, taking online or offline courses, or reading through educational websites covering these topics.

Where can I study fundamental analysis?

How to do fundamental analysis of stock step by step?

[embedded surveillance system using background subtraction](#), [statics 9th edition solutions](#), [getting started fundamental analysis](#)

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