

# COMPUTER GRAPHICS EXAM QUESTION AND ANSWERS

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**What is computer graphics answer?** Computer graphics refers to a technology that generates images on a computer screen. It's used in digital photography, film and television, video games, and on electronic devices and is responsible for displaying images effectively to users.

**What all topics are in computer graphics?** Some topics in computer graphics include user interface design, sprite graphics, rendering, ray tracing, geometry processing, computer animation, vector graphics, 3D modeling, shaders, GPU design, implicit surfaces, visualization, scientific computing, image processing, computational photography, scientific ...

**What is the four types of computer graphics?** Computer graphics involve rendering, modelling, animation, and shading. Rendering is creating images from models, while modelling involves building 3D objects. Animation brings movement to still photos, and shading adds texture and colour. Understanding these concepts helps in creating stunning visuals.

**Who was the first user of computer graphics?** 7. Who is the first user of computer graphics? Explanation: In 1960s William Fetter used computer graphics to create cockpit drawing. He along with Verne Hudson did research on computer graphics.

**Is computer graphics difficult?** Graphics programming is a difficult field to get started in. For the most part, C++ competency is a given and from there, the path to becoming a competent graphics programmer is a very real grind.

**What is computer graphics pdf?** Computer graphics is an art of drawing pictures on computer screens with the help of programming. It involves computations, creation, and manipulation of data.

**What are the 7 areas of computer graphics?**

**What are the 5 major elements of computer graphics?** What Are the Basic Elements of Graphic Design? Line, shape, form, texture, space, imagery, typography and color. Understanding each of these basic elements of graphic design in isolation will help you see how to bring them together and open a whole world of creative possibilities.

**What are the five examples of computer graphics?** Images that are generated by a computer are called computer graphics. Examples are photographs, drawings, line art, mathematical graphs, line graphs, charts, diagrams, typography, numbers, symbols, geometric designs, maps, engineering drawings, or other images. Graphics often combine text, illustration, and color.

**What are the 3 basic types of graphics software?** Some popular graphics software programs are Adobe Photoshop, Adobe Illustrator, and CorelDRAW. These programs can be used to create and edit digital images, illustrations, and logos. They offer a variety of features and tools that allow users to manipulate photos and graphics to create custom designs.

**What are the two types of images in computer graphics?** There are a number of specialized software applications to create and edit images, including illustration software and photo-editing software. In general, these applications work with two types of images: vector graphics and raster graphics.

**What are the two main types of graphics?** The types of graphics that companies use for the above purposes range from the UI and UX design components of their web pages to the illustrations they include in digital and physical media. Graphic elements fit into two general categories: raster graphics and vector graphics.

**Who is the father of computer graphics?** Ivan Sutherland is considered by many to be the father of computer graphics. He introduced such concepts as 3-D computer modeling, visual simulation, computer-aided design (CAD), and virtual reality.

Sutherland's work in computer graphics began with his Ph. D.

**What is clipping?** Clipping refers to the process of cutting or trimming a portion of an object, image, or signal. In the context of technology, computing, programming, and communications, clipping can occur in various scenarios.

**What is a curve in computer graphics?** A curve is an infinitely large set of points. Each point has two neighbors except endpoints. Curves can be broadly classified into three categories ? explicit, implicit, and parametric curves.

**What are major problems in computer graphics?** One of the main challenges in computer graphics research is the lack of high-quality and diverse data sets for training, testing, and evaluating algorithms and models. Data is essential for developing and improving techniques such as computer vision, machine learning, and computer animation.

**What is the basic knowledge of computer graphics?** The term computer graphics (CG) describes the use of computers to create and manipulate images. Computer Graphics is the creation and manipulation of images or pictures with the help of computers. The major product of computer graphics is a picture. With the help of CG, pictures can be represented in 2D and 3D space.

**Does computer graphics require coding?** Graphic designers do not need to be great coders, but it is beneficial for them to understand the fundamentals of coding languages such as HTML, CSS & JavaScript. Also, learning to code can ease the interaction with the tech team & improve your designs since they would've got their atleast their basics straight.

**What is computer graphics in CAD?** Computer-aided design (CAD) is a way to digitally create 2D drawings and 3D models of real-world products before they're ever manufactured. With 3D CAD, you can share, review, simulate, and modify designs easily, opening doors to innovative and differentiated products that get to market fast.

**What are the types of computer graphics?** Computer graphics can be separated into two different categories: raster graphics and vector graphics. While both in essence set out to achieve the same goal (a high-quality digital image), they use

different techniques and therefore have different strengths and weaknesses.

**What is graphics in short answer?** Graphics refers to visual images or designs created or displayed on a screen or printed on a physical medium. Graphics are used to communicate information, convey ideas, or enhance the visual appeal of various forms of media.

**What is a computer graphics?** Computer graphics is a sub-field of computer science which studies methods for digitally synthesizing and manipulating visual content. Although the term often refers to the study of three-dimensional computer graphics, it also encompasses two-dimensional graphics and image processing.

**What is graphics in short answer?** Graphics refers to visual images or designs created or displayed on a screen or printed on a physical medium. Graphics are used to communicate information, convey ideas, or enhance the visual appeal of various forms of media.

**What is an example of graphics?** Examples are photographs, drawings, line art, mathematical graphs, line graphs, charts, diagrams, typography, numbers, symbols, geometric designs, maps, engineering drawings, or other images.

**What is the graphics of my PC?** Press Windows + R to open the Run dialog box. Enter dxdiag, press Enter, and if prompted, click Yes to continue. The DirectX Diagnostic Tool opens and lists your graphics card under the Display tab.

**What is the summary of public policy a new introduction?** The book examines the key approaches and methods of public policy analysis and shows how these can inform public policy choices. It assesses the way various actors, interests and institutions affect each stage of the policy process – including agenda-setting, decision-making and implementation.

**What is the main idea of public policy?** Public policy is best described as the broad area of government laws, regulations, court decisions, and local ordinances. Today, government affects all aspects of our lives. Everyone has a stake in the public policies enacted by federal, state, and local governments.

**What is public policy in simple terms?** Public policy can be generally defined as a system of laws, regulatory measures, courses of action, and funding priorities

concerning a given topic promulgated by a governmental entity or its representatives.

**What are the 3 key elements of public policy?** Final answer: The three elements of all public policies include policy statement, policy implementation, and policy evaluation. Policy financing is often associated with implementation, and policy review is part of the evaluation process.

**What is the purpose of studying public policy?** A degree in public policy equips students with the skills to assess societal issues and shape legislative decisions across various levels of government — local, state, and federal.

**What are the six goals of public policy?** The Preamble of this document states its six main goals: to form a more perfect union, to establish justice, to ensure domestic tranquility, to provide for the common defense, to promote the general welfare, and to secure the blessings of liberty.

**How does public policy affect our everyday lives?** These policies govern and include various aspects of life such as education, health care, employment, finance, economics, transportation, and all over elements of society. The implementation of public policy is known as public administration.

**What is the difference between law and public policy?** "Law is the foundation of our government. It's the rules we live by. It's how we settle disputes. And then public policy is about the decisions the government makes about society at large."

**What is policy in one word?** policy noun [C] (PLAN) a set of ideas or a plan of what to do in particular situations that has been agreed to officially by a group of people, a business organization, a government, or a political party: They believe that Europe needs a common foreign and security policy.

**What is the differentiation in pure math?** Differentiation is the process that we use to find the gradient of a point on the curve. To understand this better we would recall that to find the gradient (slope) of a straight line, we simply divide the change in y by the change in x. E.g We know that slope of a straight line is always constant.

**What is pure maths 1?** Pure mathematics explores the boundary of mathematics and pure reason. It has been described as "that part of mathematical activity that is

done without explicit or immediate consideration of direct application," although what is "pure" in one era often becomes applied later.

**What is the difference between pure math and applied math?** Essentially, pure mathematics focuses on abstract and theoretical concepts in math working to prove theorems and research and discover new realms of math. Pure math courses are heavily proof-based and deal with theoretical possibilities of math. On the other hand, applied mathematics focuses on ways to use math.

**What is the definition of differentiation in math?** Definition. Differentiation is a method used to compute the rate of change of a function  $f(x)$  with respect to its input  $x$ . This rate of change is known as the derivative of  $f$  with respect to  $x$ .

**How to solve differentiation?**

**Is pure math the same as calculus?** Calculus is the fundamental component of both applied and pure mathematics. In applied mathematics, calculus helps in solving problems related to mechanics. Pure mathematics uses calculus to find tangent lines of arbitrary geometries and calculate areas of different figures.

**Is pure math the hardest math?** Not everyone has the personality for that. Any mathematics is hard, not only pure mathematics, but pure mathematics is special, and is perhaps the hardest of all.

**What's the hardest math?**

**Does pure math pay well?** Pure Mathematics Salary. \$42,000 is the 25th percentile. Salaries below this are outliers. \$65,000 is the 90th percentile.

**Is pure math harder than physics?** Pure mathematics is probably the hardest thing one can study at university. The level of abstraction required is immense. Physics is essentially applied mathematics. Pure mathematics has always been the most challenging thing one can attempt.

**Is pure maths harder than further maths?** Is A-Level Further Maths Harder Than Maths? Yes, because Further Maths, as its name implies, goes "further" than Maths. Do you know that you can't take A-Level Further Maths without also studying A-Level Maths? That's because A-Level Further Maths is built on the more basic knowledge

you'll learn at A-Level Maths.

**Is pure math a good degree?** Ultimately, there is no specific theoretical goal to pure mathematics. This isn't to say that the pure math major is “useless”—quite the contrary, in fact. A pure mathematician's work could even reveal practical solutions for organizations, businesses, and applied mathematicians.

**How difficult is differentiation?** Differentiation is typically quite easy, taking a fraction of a second. Integration typically takes much longer, if the process completes at all! The point? If integration seems hard - that's because it really is!

**What are the 7 rules of differentiation?**

**What is the formula for differentiation?** Introduction to Differentiation Formula power rule ( $\frac{d}{dx}(x^n) = nx^{(n-1)}$ ), constant multiple rule ( $\frac{d}{dx}(kf(x)) = k \cdot f'(x)$ ), and sum/difference rule ( $\frac{d}{dx}(f(x) \pm g(x)) = f'(x) \pm g'(x)$ ). These formulas enable us to analyse the behaviour of functions, find critical points, and solve optimization problems.

**What is an example of a differentiation?** Differentiation is a method of finding the derivative of a function. Differentiation is a process, in Maths, where we find the instantaneous rate of change in function based on one of its variables. The most common example is the rate change of displacement with respect to time, called velocity.

**What is the differentiation formula?** The general representation of the derivative is  $\frac{d}{dx}$ . This formula list includes derivatives for constant, trigonometric functions, polynomials, hyperbolic, logarithmic functions, exponential, inverse trigonometric functions etc.

**Is differentiation calculus or algebra?** In mathematics, differential calculus is a subfield of calculus that studies the rates at which quantities change.

**Are differential equations used in pure math?** The study of differential equations is a wide field in pure and applied mathematics, physics, and engineering. All of these disciplines are concerned with the properties of differential equations of various types.

**Can LED lights be used as street lights?** The LED light source is highly efficient and environmentally friendly. It is more controllable than previous types of street lighting as it can be dimmed when necessary and it concentrates light on where it's needed with less light pollution.

**What are the specifications of an LED street light driver?**

**What type of LED is used in street light?** 3030 LED chips are best known for their higher-cost performance. 5050 LED chips, on the other hand, are a better option for an energy management contract. LED street lights offer a wide variety of optical light distributions.

**What are US LED lights?** LED stands for light emitting diode. LED lighting products produce light up to 90% more efficiently than incandescent light bulbs. How do they work? An electrical current passes through a microchip, which illuminates the tiny light sources we call LEDs and the result is visible light.

**Why are LED lights not street legal?** Let's start with the law and expand from there. According to FMVSS, the only way a vehicle with LED headlights is legal is if it came from the manufacturer that way. There are regulations about the reach, aim, and width of the headlight patterns.

**Is code for LED street light?** IS 10322-(PART 5):3:2012.

**What is the difference between LED and LED driver?** LEDs are designed to run on low voltage (12-24V), direct-current electricity. However, most places supply higher voltage (120-277V), alternating current electricity. An LED driver rectifies higher voltage, alternating current to low-voltage, direct current.

**How many lumens are LED street lights?** Residential applications of LED street lights generally call for lumen packages in a range for 3000 to 5000 lumens. In this lumen range, most street light luminaires would have a G rating = 1.

**What voltage are LED street lights?** In this type of system the main power supply produces an isolated fixed voltage typically 24 or 48V, low enough to fall within UL safety limits.



### **What are the disadvantages of LED street lights?**

**Why are some street lights blue LEDs?** It's a manufacturer defect called "delamination." LED street lights use LED packages that produce either a blue or purple light — in this case, purple — and a yellowish phosphor coating on them converts that colour to white. When the phosphor coating comes off, or delaminates, it lets the blue light through.

**How many watts is a LED street light?** "Depending on whether they are illuminating a residential neighborhood, major road, or town center, the lamps used in streetlights vary in both size and power consumption (usually between 35 and 250 Watts)" It is often believed that the average wattage of a streetlight is around 80 watts.

### **What is the specification of a LED light?**

**What are the disadvantages of LED light bulbs?** Perhaps the biggest drawback of LED light bulbs is that they emit more blue light than incandescent bulbs, which are more on the red end of the spectrum. Blue light can cause a disruption in your circadian rhythm, negatively affect your ability to fall asleep and the quality of your sleep.

**Which color LED consumes less power?** Blue light is very energy intensive, and red, yellow and green light operate at lower energy levels.

**What are the problems with LED street lights?** According to the AMA (American Medical Association), there are two problems with white LED streetlights. One is the possible discomfort and glare. The other is the effect on circadian rhythms of both humans and wildlife.

**Are LED lights on the road legal?** LED bulbs. There are two types of LED bulbs: Original Equipment (OE) and retrofit. OE LED bulbs are completely road legal and fitted as standard by car manufacturers.

**Why is replacing halogen with LED illegal?** Why are LED bulbs not road legal? The reason why vehicles that have had replacement LED bulbs retrofitted are not technically road legal is because this is considered an aftermarket modification that

cannot be regulated.

**Are LED lights street legal?** Due to their brightness, it is illegal to drive on the street with an LED light bar turned on. In fact, simply leaving them off isn't enough in most states. An LED light cover must be used while the vehicle is driven on the highway.

**How bright can street lights be?** Street lights typically range from 600 to 12000 lumens. The latter option will be extremely bright and is best for large areas that need brighter lighting solutions.

**What is the 8 digit HSN code for LED street light?**

**Are LED bulbs road legal?** LED bulbs. There are two types of LED bulbs: Original Equipment (OE) and retrofit. OE LED bulbs are completely road legal and fitted as standard by car manufacturers.

**What are the disadvantages of LED street lights?**

**Are LED strip lights legal?** LED lights in a car aren't illegal; however, there are certain regulations you must follow. But don't stress! Light Supplier will run you through the do's and don'ts to prepare you for the road. With our Car LED Strip Lights, your driving experience will transform into something of style.

**Are LED street lights safe?** However, white LED streetlights can disrupt our circadian rhythm, and then affect human health and well-being. The long-term exposure to white LED streetlights will disrupt our biological clock. LED streetlights can also damage the circadian rhythms of wildlife.

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