

# COMPETITIVE EXAM QUESTIONS AND

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**What are the types of questions in competitive exams?** This tips sheet contains a brief description of seven types of examination questions, as well as tips for using each of them: 1) multiple choice, 2) true/false, 3) matching, 4) short answer, 5) essay, 6) oral, and 7) computational.

**Which is the best MCQ site for competitive exams?** The best MCQ site to practice MCQs is mcquestions.net. mcquestions.net provides the MCQs for competitive exams asked in previous year on Quantitative Aptitude, Reasoning, English, GK, Computer, Civil Engineering, Electrical Engineering, Mechanical Engineering, Electronics Engineering, NIMI Mock Test and many more.

**What are the top 10 quiz questions?**

**What are the most important GK questions in India?**

**What are the 3 main types of questions?** Factual questions (level one) can be answered explicitly by facts contained in the text. Inferential questions (level two) can be answered through analysis and interpretation of specific parts of the text. Universal questions (level three) are open-ended questions that are raised by ideas in the text.

**What are the four main types of questions?**

**Are MCQ and objective the same?** Objective tests are ones that have finite correct answers and can be easily graded without subjective judgement, even by machine. The most common form of objective tests are multiple choice tests. Each multiple-

choice test item presents a stem, which could be a question or an incomplete statement.

**What is MCQs?** 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 a number of distractors that are plausible but incorrect answers to the question.

**Which exam is most competitive?** Union Public Service Commission (UPSC) Civil Services Examination. UPSC CSE is undoubtedly one of the most India's toughest exam. It serves as the gateway to prestigious positions like the Indian Administrative Service (IAS), Indian Foreign Service (IFS), and Indian Police Service (IPS).

**What are the 15 types of questions?**

**What are the 20 questions categories?** In ye olden times, the categories were animal, vegetable, or mineral, but people usually use different options now. Stating whether it's a person/place/thing is common, and you can create more specific categories depending on how easy/hard you want the game to be.

**What is the most common type of questions used on tests?** Multiple Choice (M/C) is a very common assessment question type. It offers a statement and then students must select the correct answer(s) from a list of possibilities. This question type can assess information recall, reading comprehension, critical thinking/problem solving, and other student learning factors.

**What are the types of questions in Olympiad?**

**Can the speed of a plane be described as 300 mi/h?** 11. Speed is velocity in a given direction. 12. The speed of a plane can be described as 300 mi/h.

**What is the word for how fast something freely falls from rest after an elapsed time?** The instantaneous speed of an object falling from rest is equal to the acceleration multiplied by the elapsed time. The letter  $v$  represents both speed and velocity. When the acceleration  $g = 10 \text{ m/s}^2$  is multiplied by the elapsed time in seconds, the result is the instantaneous speed in meters per second.

**Is an object moving if its position relative to a fixed point is changing?** How can you tell if an object is moving? An object is moving if its position relative to a fixed point is changing. How can you calculate speed? You can calculate the speed of an object by dividing the distance covered by the time.

**Is the following sentence true or false for each second of free fall an object falls a greater distance than it did in the previous second?** Explanation: The statement "For each second of free fall, an object falls a greater distance than it did in the previous second." is true. This behavior is due to gravity, a force that accelerates an object towards the ground once it's in free fall. The acceleration due to gravity on Earth is approximately  $9.8 \text{ m/s}^2$ .

**Is speed scalar or vector?** Speed is a scalar quantity. As discussed above, speed is the distance travelled per unit time. Velocity is a vector quantity (the vector equivalent of speed). Velocity is defined as the displacement per unit time.

**How to calculate speed?** The formula for speed is  $\text{speed} = \text{distance} \div \text{time}$ . To work out what the units are for speed, you need to know the units for distance and time. In this example, distance is in metres (m) and time is in seconds (s), so the units will be in metres per second (m/s).

**How fast can a human fall?** The Science of Freefall Speed Skydivers can also fall on their backs, in a sitting or standing position, and on their heads. The more vertical positions (picture a pencil dive) are the fastest way to fall. The average speed of those positions is 170 mph and higher.

**How far do you fall in 7 seconds?**

**How far does a human fall in 6 seconds?** The formula I learned in high school Physics is  $s = \frac{1}{2}gt^2$ , where  $s$  is distance in meters,  $g$  is the force of gravity (10 meters per second per second), and  $t$  is time in seconds. So in 6 seconds, a person will fall  $5 \times 36$  or 180 meters.

**What is the only force responsible for free fall?** Free fall is the state of an object in which the only force acting upon it is the force of gravity. As the definition states, an object is in free fall if the only force acting upon the object is the force of gravity.

**What is the combination of all the forces acting on an object?** The combination or the resultant of all the forces acting on an object is called Net Force, which is basically the sum of all the forces acting on that object.

**What is the change in velocity of an object over time called?** The change in velocity of a body with time is called acceleration.

**When in freefall an object will fall with a constant \_\_\_\_\_?** In a previous unit, it was stated that all objects (regardless of their mass) free fall with the same acceleration -  $9.8 \text{ m/s}^2$ . This particular acceleration value is so important in physics that it has its own peculiar name - the acceleration of gravity - and its own peculiar symbol -  $g$ .

**How far has an object moved from its original position?** Displacement is a vector quantity that refers to "how far out of place an object is"; it is the object's overall change in position.

**Why a dropped coin reaches the ground before a feather?** The air resistance or friction by air for the feather will be more due to its large surface area. So the coin will go fast and strike the ground.

**What is instantaneous speed?**

**What is the speed at any instant of time called?** The speed at any instant of time is known as instantaneous speed.

**Why does distance have no direction?** Distance is defined as an object's total movement without regard for direction. Distance is a scalar quantity with only magnitude and not a vector quantity. It means that when an object moves, the direction of the object does not consider; only the magnitude of the distance is considered.

**How to calculate ratio?** Ratios compare two numbers, usually by dividing them. If you are comparing one data point (A) to another data point (B), your formula would be  $A/B$ . This means you are dividing information A by information B. For example, if A is five and B is 10, your ratio will be  $5/10$ . Solve the equation.

**How are velocity and acceleration related?** Velocity is the rate of change of the displacement of an object, whereas acceleration is the rate of change of its velocity.

**How to calculate the speed of a wave?** The formula for wave speed is  $\text{Speed(m/s)} = \text{Frequency(Hz)} \times \text{Wavelength(m)}$ , or  $v = f\lambda$ .

**What does it mean if the speed of a wave is 300?** According to the definition of the wave speed, for a wave to have a speed of 300 m/s means that the wave disturbance travels 300 m during each second.

**What does it mean to say that the speed of a vehicle is 40 mi/h?** At 40 miles per hour, you are traveling 58.8 feet per second. To convert miles per hour to feet per second, multiply the miles per hour figure by 1.47. There are 5280 Feet in a mile and 3600 Seconds in an hour.

**How do you measure the speed of a plane?** An air speed indicator (ASI) is a device for measuring the forward speed of the aircraft. The ASI uses the aircraft pitot-static system to compare pitot and static pressure and thus determine forward speed.

**What is the speed of a plane in miles?** The average cruising airspeed for a commercial passenger jets is 480 to 575 mph or 770 to 930 km/h (between Mach 0.74 and Mach 0.8).

### **The Sociology of Economic Life: Exploring the Interconnections**

The sociology of economic life delves into the social dimensions of economic activity, examining how economic institutions, practices, and values shape and are shaped by social structures. This multidisciplinary field draws on insights from sociology, economics, history, and anthropology to explore the complex relationship between the economy and society.

#### **What is the Sociology of Economic Life?**

Sociology of economic life investigates the social processes and structures that underlie economic phenomena. It analyzes how individuals and groups interact in economic systems, how economic institutions operate, and how economic behavior

is influenced by social norms, values, and beliefs. By understanding these social dynamics, sociologists aim to uncover the hidden social forces that shape economic outcomes.

### **How is the Economy Socially Constructed?**

The economy is not simply a collection of objective market forces; it is also a social construct. Sociologists argue that economic systems are shaped and maintained by social institutions, such as property rights, legal systems, and social stratification. These institutions define what is considered wealth, how it is distributed, and who exercises power in economic decision-making.

### **How Does the Economy Affect Society?**

In turn, the economy exerts a profound impact on society. Economic inequalities can lead to social stratification, affecting access to healthcare, education, and other resources. Economic growth can create new jobs and opportunities, but it can also lead to environmental degradation and increased social mobility. Sociologists explore the complex ways in which the economy shapes social outcomes.

### **What are the Key Concepts in the Sociology of Economic Life?**

Some key concepts in the sociology of economic life include:

- Social class and inequality
- Economic socialization
- Consumer culture
- Labor markets
- Economic development

By examining these and other concepts, sociologists provide a deeper understanding of the social foundations and consequences of economic activity.

### **How is the Sociology of Economic Life Applied?**

The insights gained from the sociology of economic life have practical applications in fields such as policymaking, business management, and development economics. By understanding the social factors that influence economic behavior, policymakers

and business leaders can design more effective strategies. Sociologists also contribute to discussions on economic inequality, social justice, and sustainable development.

**Why won't my Kubota 3 cylinder diesel crank?** Defective or dirty battery cables are the problem more often than you might think. Use a cleaning tool to remove dirt and grime from the battery posts and the cable ends. Carefully clean connections or replace cables as necessary.

**How do I identify a Kubota diesel engine?** All engines will have the serial number tag at the top of the valve cover. The engine model, serial number, engine part number and the bar code are all found on the sticker on top of the valve cover.

**Is the Kubota D1105 a good engine?** Renowned for its exceptional reliability and long service life.

**How many hours does a Kubota diesel engine last?** Kubota warrants its industrial engines for 2 years or 2,000 hours, whichever occurs first; major engine components are warranted for 3 years or 3000 hours. Again, whichever occurs first. However, with proper maintenance, your Kubota diesel engine could last up to 10,000 hours.

**What is the possible cause of starting failure of diesel engine?** Your Diesel Engine is Having Trouble Starting When the components in the combustion chamber wear down, the engine cannot achieve the necessary compression. These components include the piston, rings, valves, cylinder liners, etc. The starting problems will be much worse in cold and hot weather when this is the cause.

**Why is my diesel engine cranking but not turning over?** Restricted airflow due to debris or dirt clogging can be a potential cause of cranking without starting. Engine: Checking the engine itself for the proper functioning of the block heater, coolant, and engine oil is an easy method for identifying potential problems.

**Are Kubota diesel engines good?** Kubota Advantage: Higher reliability and uptime. Reduced maintenance. No risk of catastrophic damage to valves due to timing belt failure. Designed to run reliably in tough industrial applications.

**Who makes Kubota diesel engines?** Kubota is a manufacturer of compact, multi-cylinder, liquid-cooled diesel engines up to 210 HP. Kubota Engine America Corporation (KEA) oversees the sale of engines, generators and service parts. In 1890, Kubota Corporation started its rich history of innovation and contribution to society in Osaka, Japan.

**Can I use regular diesel in my Kubota tractor?** Kubota recommends the use of diesel fuel that is refined to appropriate on-highway and off-highway standards. Kubota cannot be responsible for any fuel system component failures due to inappropriate fuel, incorrect lubricity or fuel additives used. Appropriate diesel fuel standards include ASTM D975 for lubricity.

**Which engine is better Yanmar or Kubota?** Yanmar diesel engines are air or water-cooled, while Kubota engines are liquid-cooled. According to a comparison article, Yanmar engines have slightly more power and a stronger loader, while Kubota tractors have a larger fuel capacity, engine horsepower, and PTO.

**What is the difference between Kubota D1105 and D905?** The Kubota D905 is a vertical, water-cooled, four cycle diesel engine with a capacity of 17.4HP at 3000RPM. The Kubota D1105 is a vertical, water-cooled, four cycle diesel engine with a capacity of 21.7HP at 3000RPM.

**What fuel does Kubota diesel recommend?** Ultra Low Sulfur Diesel Fuel Cetane Rating: The minimum recommended fuel cetane rating is 45. A cetane rating greater than 50 is preferred, especially for ambient temperatures below -20 °C (-4 °F) or elevations above 1500 m (4921 ft.).

**What is considered high hours on a diesel engine?** As a rough guide the average lifespan of a diesel engine can vary from 5,000 hours to 20,000 hours, assuming it's maintained properly. In terms of mileage, that equates to 300,000 miles to 100,000 miles. Properly maintained, under standard working conditions, a diesel engine can last a long, long time!

**Is 4000 hours a lot for a diesel engine?** Marine diesel mechanics have told us that most marine diesels go bad after about 4,000 hours.

**What is the longest lasting diesel engine?**

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**What is the most common problem with diesel engines?** The number one problem found in diesel engines is engine overheating. Engine overheating is caused when an engine is pushed too hard and can give rise to a whole host of negative side-effects. This is including, but not limited to: Damage to the bearings and crankshaft.

**What to check when diesel engine does not start?** Look for air in the fuel system: Air in the fuel system can prevent proper fuel delivery to the engine. Check for any air leaks in the fuel lines or connections. Bleed the fuel system to remove any trapped air. Check the starter motor: The starter motor is responsible for cranking the engine.

**What are the symptoms of airlock in diesel fuel system?** Airlocks occur when air enters your fuel system and keeps the diesel fuel from reaching the injectors. Unable to pass fuel through the bubble stuck in your system, typical symptoms include difficulty starting the engine, reduced engine power after starting, and, in severe cases, the inability to start the engine.

**Why is my diesel tractor getting fuel but won't start?** If your tractor cranks, but won't start, you'll want to look at a few different engine components. Is the fuel making it to the cylinder? Check the fuel level, the shutoff valve, and the fuel filter. If those components look ok, air might not be making it to the cylinder.

**How do you diagnose a diesel engine problem?** Diagnosing engine performance problems often involves conducting compression tests to assess cylinder health and examining exhaust gases for anomalies. Inspecting the turbocharger for damage and checking for air intake restrictions are also essential steps.

**When a diesel engine fails to start after 30 seconds of cranking what is the recommended cool down period before cranking the engine again?** Never run the starter for more than a 30-second stretch, and if it does run that long, then wait at least two minutes between cranks to allow the starter to cool.

**Why is my diesel tractor cranking but not starting?** If your tractor cranks, but won't start, you'll want to look at a few different engine components. Is the fuel making it to the cylinder? Check the fuel level, the shutoff valve, and the fuel filter. If

those components look ok, air might not be making it to the cylinder.

**Why is my diesel generator cranking but not starting?** Some common reasons for this problem include air in the fuel system, a faulty fuel pump, a clogged fuel filter, low compression in the engine, or problems with the electrical system.

**How do you diagnose a diesel no start?** Check the fuel gauge or visually inspect the fuel level. If the fuel level is low, fill up the tank with fresh diesel fuel. Check the battery: Ensure that the battery is fully charged and the terminals are clean and securely connected. A weak or dead battery can prevent the engine from starting.

**How do you find the top dead center on a 3-cylinder diesel engine?**

**How do you diagnose a diesel engine problem?** Diagnosing engine performance problems often involves conducting compression tests to assess cylinder health and examining exhaust gases for anomalies. Inspecting the turbocharger for damage and checking for air intake restrictions are also essential steps.

**Why is my diesel engine hard to start when warm?** Reasons: Difficult start of the warmed diesel engine as opposed to the easy cold start can be caused by the high pressure fuel pump malfunction connected with the plunger pair wear.

**How do I know if my diesel starter is bad?** Common Signs of a Bad Starter The engine won't turn over. The most common signal that your starter has a problem is if nothing happens when you turn the key or push to start. Unusual noises, such as clinking, grinding and whirring. If you ignore these sounds, it can eventually lead to damage to the engine flywheel.

**Why is my engine cranking but not starting?** If the car cranks when you turn the key, but the engine won't start, it could be because fuel isn't getting to the engine. One potential reason for this could be dirty fuel injectors. Over time, the fuel injector nozzles can become clogged with rust, corrosion or debris.

**Why is my diesel generator running but not producing power?** Poor Connections. If your generator runs but no power is generated, consider fixing poor connections via the unit's ports. Clean particles, debris, or blockages before plugging devices in to test that the power is flowing correctly.

**What is the cause of starting motor running but not cranking?** 1 Start motor engages but the engine doesn't turn The simplest cause of this sort of fault is a loose or corroded electrical connection. If there is a fault with the internal windings of the starter motor, bad brushes, or other electrical faults, the starter motor may lack the torque to crank the engine.

**How do you tell if a diesel engine is locked up?**

**How cold before diesel won't start?** What temp is too cold for a diesel engine? At a temperature of 15 degrees Fahrenheit or -9.5 degrees Celsius, the diesel fuel in your fuel tank will solidify, and you will have difficulty starting your engine.

**Why can't you start a diesel right away?** A gas engine starts when the spark plug ignites the fuel, whereas diesel engines rely on heat created by compression. During cold snaps, diesel fuel sometimes needs help from an external heat source, and there are three ways to make that happen: Using an Intake Heater. Using the Glow Plugs.

**How to tell if engine is at TDC on compression stroke?** If it's TDC at end of the compression stroke, both valves should be closed. If it's TDC at end of exhaust stroke, you should be in the valve overlap zone, with the intake valve partially open and on its way to opening fully, and the exhaust valve partially open on its way to closing.

**How to tell when cylinder 1 is at TDC?** Place your thumb over the spark plug hole. As the engine rotates, the piston will rise inside cylinder one and you'll be able to feel the increase in pressure. Take your thumb and insert it into the hole the spark plug came out of so you'll be able to feel the change in pressure within the cylinder.

**How to find TDC on a diesel engine without?** There are often marks 'indicating TDC' for the #1 cylinder' on the flywheel or front crankshaft pulley, that are utilized for indexing the injector pump (check the manufacturer's service manual). TDC can also be detected by removing the #1 fuel injector and using a stiff wire or small rod to contact the piston.

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