

# STERLING TEST PREP GRE PHYSICS PRACTICE QUESTIONS HIGH YIELD GRE PHYSICS QUES

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### **Master the GRE Physics with Sterling Test Prep's High-Yield Practice Questions**

Are you preparing for the GRE Physics exam? Sterling Test Prep offers a comprehensive resource of high-yield practice questions designed to maximize your score. These questions cover the most frequently tested concepts on the actual exam, providing you with a strategic advantage.

#### **Question 1:**

A ball is thrown vertically upward with an initial velocity of 10 m/s. What is the maximum height it will reach?

#### **Answer:**

Using the equation for vertical motion:  $v^2 = u^2 + 2as$ , where  $v$  is the final velocity (0 m/s at the maximum height),  $u$  is the initial velocity (10 m/s),  $a$  is the acceleration due to gravity ( $-9.81 \text{ m/s}^2$ ), and  $s$  is the vertical displacement. Solving for  $s$ , we get  $s = (10 \text{ m/s})^2 / (2 \times 9.81 \text{ m/s}^2) = 5.1 \text{ m}$ .

#### **Question 2:**

A point charge of  $5 \mu\text{C}$  is located at the origin. What is the electric field at a point (0, 3) m?

**Answer:**

Using the equation for electric field due to a point charge:  $E = kq/r^2$ , where  $k$  is the Coulomb constant ( $8.99 \times 10^9 \text{ N m}^2/\text{C}^2$ ),  $q$  is the charge ( $5 \mu\text{C} = 5 \times 10^{-6} \text{ C}$ ), and  $r$  is the distance from the charge (3 m). Solving for  $E$ , we get  $E = (8.99 \times 10^9 \text{ N m}^2/\text{C}^2) (5 \times 10^{-6} \text{ C}) / (3 \text{ m})^2 = 4.99 \times 10^4 \text{ N/C}$ .

**Question 3:**

A uniform rod of length  $L$  and mass  $M$  is pivoted about one end. What is the moment of inertia of the rod about the pivot axis?

**Answer:**

Using the equation for moment of inertia of a rod about an axis perpendicular to its length and passing through one end:  $I = (1/3) M L^2$ , we get  $I = (1/3) M (L \text{ m})^2 = (1/3) M L^2 \text{ kg m}^2$ .

**Question 4:**

A wave has a frequency of 500 Hz and a wavelength of 0.6 m. What is its speed?

**Answer:**

Using the equation  $v = f\lambda$ , where  $v$  is the speed,  $f$  is the frequency, and  $\lambda$  is the wavelength, we get  $v = 500 \text{ Hz} \cdot 0.6 \text{ m} = 300 \text{ m/s}$ .

**Question 5:**

A particle of mass  $m$  moves in a circular path of radius  $r$  with a constant speed  $v$ . What is the work done by the centripetal force?

**Answer:**

Since work is done by a force in the direction of its displacement, and the centripetal force is always perpendicular to the displacement, no work is done by the centripetal force.

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**Navigating Synagis Prescription Enrollment with Accredited**

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QUES

### **What is Synagis and why is it prescribed?**

Synagis is a medication prescribed to prevent serious respiratory infections (RSVs) in infants and children with weakened immune systems or chronic lung conditions. It is administered through a monthly injection during the RSV season, typically from November to April.

### **How do I enroll my child in the Synagis prescription program with Accredo?**

To enroll your child in the Synagis prescription program with Accredo, you will need to contact your healthcare provider to determine if Synagis is appropriate for your child. Your healthcare provider will complete a prescription enrollment form that includes information about your child's medical condition, weight, and prescription dosage.

### **What information is required on the Synagis prescription enrollment form?**

The Synagis prescription enrollment form requires the following information:

- Child's name, date of birth, and weight
- Child's physician's name, contact information, and DEA number
- Child's medical condition and history of RSV infections
- Child's current medications
- Parent/guardian name, contact information, and insurance details

### **How do I submit the enrollment form to Accredo?**

Once the enrollment form is completed and signed by your healthcare provider, you can fax it to Accredo at the number provided on the form. You can also submit the form online through Accredo's secure website.

### **What happens after I submit the enrollment form?**

After submitting the enrollment form, Accredo will review it and contact you to confirm the enrollment. They will work with your healthcare provider to coordinate the delivery of Synagis injections and provide support throughout the treatment period.

## Yamaha RX-V667 Firmware Update: Questions and Answers

**Q: What is a firmware update and why is it important?** A: A firmware update is a software update for the internal operating system of the receiver. It typically addresses bugs, improves performance, and adds new features. Regularly updating the firmware ensures optimal performance and compatibility with the latest devices.

**Q: How do I update the firmware on my Yamaha RX-V667?** A: There are two methods to update the firmware:

- **USB:** Download the update file from the Yamaha website onto a USB drive and insert it into the USB port on the receiver.
- **Network:** Connect the receiver to a network and go to "Setup" > "Firmware Update" to check for updates and download them directly to the receiver.

**Q: My receiver is not connecting to the network. What do I do?** A: Ensure that the network connection is stable and that the router settings allow communication with the receiver. If the issue persists, it may indicate a faulty network adapter or a problem with the network cable.

**Q: The firmware update process is taking a long time. Is this normal?** A: The update process can take up to 60 minutes, depending on the size of the update file and the speed of the connection. Do not unplug the receiver or interrupt the process, as this can damage the unit.

**Q: What if the firmware update fails?** A: If the update fails, the receiver may enter a protection mode. To reset it, unplug the receiver for 60 seconds, then plug it back in. If the update still fails, contact Yamaha customer support for assistance.

## Tamil Nadu Police Recruitment 2018: A Comprehensive Overview

The Tamil Nadu Uniformed Services Recruitment Board (TNUSRB) has announced the recruitment of 65,000 vacancies in the Tamil Nadu Police force in 2018. This is a golden opportunity for aspiring candidates to join the prestigious state police.

### Eligibility Criteria:

Candidates must fulfill specific eligibility criteria to apply for the TN Police Recruitment 2018:

- Age: 18-23 years for men and 18-25 years for women
- Educational qualification: Minimum Class 10 pass for most posts
- Physical standards: Height, weight, and chest measurements as specified for each post

### **Written Examination Pattern:**

The written examination for the TN Police Recruitment 2018 consists of two papers:

- Paper 1: General Studies and Current Affairs
- Paper 2: Aptitude and Mental Ability

Each paper has a time limit of 2 hours and 30 minutes.

### **Physical Measurement Test (PMT):**

After qualifying in the written examination, eligible candidates will undergo Physical Measurement Test (PMT) to assess their physical fitness. The PMT includes height, weight, and chest measurements, along with other physical tests.

### **Physical Efficiency Test (PET):**

Candidates who qualify in the PMT will appear for the Physical Efficiency Test (PET) to demonstrate their agility and endurance. The PET involves running, jumping, climbing, and other physical exercises.

### **Medical Examination:**

Finally, all candidates who qualify in the PET will undergo a thorough medical examination to ensure their overall fitness for the job. Only candidates who clear the medical examination will be considered for appointment in the Tamil Nadu Police force.

[\*synagis prescription enrollment form accredo, yamaha rx v667 firmware update, tamilnadu police recruitment 2018 tn police tnusrb 65000\*](#)

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