

SOAL UN FISIKA SMA 2017 DAN PEMBAHASAN LENGKAP

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Soal UN Fisika SMA 2017 dan Pembahasan Lengkap

Pada tahun 2017, Ujian Nasional (UN) untuk mata pelajaran Fisika SMA memuat sejumlah pertanyaan yang cukup menantang. Berikut adalah beberapa soal yang muncul bersama dengan pembahasan lengkapnya:

Soal 1:

Sebuah benda bermassa 2 kg bergerak dengan kecepatan 10 m/s. Hitunglah energi kinetik benda tersebut!

Pembahasan:

Energi kinetik (E_k) dapat dihitung menggunakan rumus $E_k = \frac{1}{2} mv^2$, dengan m adalah massa benda dan v adalah kecepatan benda.

Substitusikan nilai yang diketahui: $E_k = \frac{1}{2} \times 2 \text{ kg} \times (10 \text{ m/s})^2 = 100 \text{ J}$

Jadi, energi kinetik benda tersebut adalah 100 Joule.

Soal 2:

Sebuah pegas dengan konstanta pegas 200 N/m diregang sejauh 5 cm. Hitunglah potensial elastis yang tersimpan dalam pegas!

Pembahasan:

Potensial elastis (PE) dapat dihitung menggunakan rumus $PE = \frac{1}{2} kx^2$, dengan k adalah konstanta pegas dan x adalah pemuaian pegas.

Substitusikan nilai yang diketahui: $PE = \frac{1}{2} \times 200 \text{ N/m} \times (0,05 \text{ m})^2 = 2,5 \text{ J}$

Jadi, potensial elastis yang tersimpan dalam pegas adalah 2,5 Joule.

Soal 3:

Sebuah benda bermuatan $+2 \mu\text{C}$ berada pada jarak 10 cm dari benda bermuatan $-5 \mu\text{C}$. Hitunglah gaya elektrostatik yang bekerja pada kedua benda!

Pembahasan:

Gaya elektrostatik (F) dapat dihitung menggunakan rumus $F = k \frac{q_1 q_2}{r^2}$, dengan k adalah konstanta Coulomb ($9 \times 10^9 \text{ N m}^2/\text{C}^2$), q_1 dan q_2 adalah muatan kedua benda, dan r adalah jarak antara kedua benda.

Substitusikan nilai yang diketahui: $F = (9 \times 10^9 \text{ N m}^2/\text{C}^2) \times (2 \times 10^{-6} \text{ C}) \times (-5 \times 10^{-6} \text{ C}) / (0,1 \text{ m})^2 = 900 \text{ N}$

Jadi, gaya elektrostatik yang bekerja pada kedua benda adalah 900 Newton.

Soal 4:

Sebuah kawat lurus panjang dialiri arus listrik 5 A. Hitunglah besar induksi magnet pada titik yang berjarak 10 cm dari kawat!

Pembahasan:

Induksi magnet (B) di sekitar kawat lurus panjang dapat dihitung menggunakan rumus $B = \mu_0 I / (2\pi r)$, dengan μ_0 adalah permeabilitas ruang hampa ($4\pi \times 10^{-7} \text{ T m/A}$), I adalah arus listrik, dan r adalah jarak dari kawat.

Substitusikan nilai yang diketahui: $B = (4\pi \times 10^{-7} \text{ T m/A}) \times 5 \text{ A} / (2\pi \times 0,1 \text{ m}) = 10 \mu\text{T}$

Jadi, besar induksi magnet pada titik yang berjarak 10 cm dari kawat adalah 10 mikroTesla.

Soal 5:

Sebuah gelombang elektromagnetik memiliki panjang gelombang 600 nm. Hitunglah frekuensi gelombang tersebut!

Pembahasan:

Frekuensi (f) gelombang elektromagnetik dapat dihitung menggunakan rumus $c = f\lambda$, dengan c adalah kecepatan cahaya (3×10^8 m/s) dan λ adalah panjang gelombang.

Substitusikan nilai yang diketahui: $f = c / \lambda = 3 \times 10^8 \text{ m/s} / 600 \times 10^{-9} \text{ m} = 5 \times 10^{14}$ Hz

Jadi, frekuensi gelombang elektromagnetik tersebut adalah 5×10^{14} Hertz atau 500 THz.

What mushrooms are native to Hawaii?

Are there morel mushrooms in Hawaii? Edible species such as the “blewit”, “oyster mushrooms”, “sulfur shelves” and Hawaiian morels will be shown. Also, poisonous species such as the deadly marbled Amanita and toxic “green-spored parasol” will be shown.

Can you forage for mushrooms in Hawaii? Fungi can be found almost all year in the subtropical environments, but the more abundant season is from July through January. Fallen palm leaves and casuarina needles, along with dead wood, coconut husks, lawns, and compost piles of mulch are all good places to look for fruiting mushrooms.

What is the fungus in Hawaii? gattii fungus. The fungus can be found in the environment, in the soil and trees in tropical and sub-tropical regions of the world (Australia, Papua New Guinea, Africa, Asia, Europe, Mexico and South America). In the united states, C. gattii has been found in Washington, Oregon, California and Hawaii.

Where are jack o lantern mushrooms found? Omphalotus illudens is commonly called the jack-o'-lantern mushroom. It is a large orange mushroom that is often found in clumps on decaying stumps, buried roots or at the base of hardwood trees in eastern North America.

What is the endemic Hawaiian mushroom? | *Hygrocybe noelokelani*, an endemic, endangered Hawaiian mushroom species.

What mushroom looks like a morel but is poisonous? False morels include the Beefsteak and Early Morel mushrooms described below. Why do false morel mushrooms make you sick? These mushrooms contain the toxin gyromitrin which is toxic to the liver.

How can you tell if a mushroom is a morel? Morel mushrooms feature distinct pitted caps with an irregular honey-combed or spongelike appearance. Yellow morels have pale ridges with darker pits and black morels have dark ridges with paler pits. Their caps can be conical, egg-shaped, elongated with a rounded top or nearly spherical.

Is it legal to forage in Hawaii? The Division of Forestry and Wildlife launched an all-digital system to allow people to get permits to forage for plants, fruit and flowers at State Forest Reserves on the Hawaiian Islands. Permits are allowed for both personal and commercial use.

Can you eat the mushrooms in your backyard or the ones that grow on your lawn? Fungi are kind of neat little above-ground packages, made to fruit for the extensive world of mycelium — rooting bodies — underground. But don't even think about eating them. Snap them off, preferably with gloves or a bag on your hands. Otherwise, make a point of washing your hands immediately.

Can I bring dried mushrooms to Hawaii? Seeds and dried non-living plant materials are unrestricted.

Can I learn kendo by myself? Answer: Depending on your level, but there are many things that we can do. If you have not practiced kendo before, it is much harder to learn kendo on your own. Learning etiquette/manners is very hard if no one tells you how to behave at a dojo or how to interact with others.

Is it hard to learn kendo? Practicing Kendo is a challenge. The techniques of Kendo are taught in a way that anyone can learn them. However, as you progress in Kendo it becomes gradually more strenuous. Like anything of value though, the rewards of Kendo are much greater than the challenge.

How many years does it take to learn kendo? Depending on when you started, it will take 2 or 3 years to achieve Shodan ranking in Kendo. So, if you started in November, you will be graded in-house the following year and likely allowed to grade for 1st Kyu in December the following year. You will then be eligible to grade for Shodan the following year.

Is kendo a hard sport? Just like any other martial art, as simple as that. Kendo may be quite specific regarding the demand on short-term stamina, but other than that, it'll get you sweating just like judo, tennis or football. It's pretty hard on the legs, especially thanks to the specific movement that may seem very unnatural at first.

Which is harder kendo or fencing? Is Kendo Harder Than Fencing? Whether Kendo or Fencing is harder will depend on the individual, as everyone has different capabilities and skills. Ultimately, both sports are challenging and require a great deal of skill and dedication to master.

Is kendo useful in a street fight?

Why is kendo so expensive? Kendo equipment can be costly for a number of reasons: High-quality materials are used to create kendo equipment like the shinai (bamboo swords), bogu (armour), and hakama (pleated pants). These items are made to last for many years. The equipment can be expensive to construct because of its durability.

Am I too old to start kendo? You're never too old to start practicing Kendo. Kendo is an accessible martial art that many can practice throughout the entirety of their lives. Kendo can be a great experience, and we invite you to practice with us regardless of age.

Is kendo an expensive sport? Since almost all the Kendo clubs of the Pacific Northwest Kendo Federation (a non-profit organization) are run through local city Parks and Recreation departments, the costs of joining a Kendo class is relatively inexpensive, particularly when compared to other private martial arts.

Does kendo get you fit? Physical development As in many other sports, through constant exercise you can improve and maintain your body's fitness and health. In particular, kendo focuses on the development of agility and speed. Muscle power, as

in most martial arts, is not particularly important, making kendo particularly suitable for women.

Is Kendo physically demanding? Kendo can be very physically demanding as the training is very intense.

What is the age limit for Kendo? So start learning and decide it on your own. Kendo can be practiced even when you become physically deteriorated. Kendo is one of the rare martial arts that people in their 60s, 70s and even 80s can practice with young people and still beat them.

What is the most common injury in kendo? Schultzel et al. evaluated the prevalence and characteristics of injuries in Kendo [12]; 74% of men and 83% of women reported injuries to two or more body parts. The common injury sites were foot/ankle (65.1%), wrist/hand (53.5%), and elbow/forearm (48.8%). The injury types were bruising, abrasion, and strains/sprains.

Is kendo beginner friendly? Starting your kendo journey is easy: just get to the dojo regularly. Just as easy is the equipment you'll need, because you really don't need much.

Should I do kendo or kenjutsu? If you are looking for training with an actual sword and to learn how to properly handle and use a Japanese sword and how it is used to get around armor (the curved shape of the Japanese sword is very important for this, a straight stick can't replicate it), then you are searching for Kenjutsu.

Do you get belts in kendo? There are no belts or difference in uniforms in Kendo. In Kendo there are six grades below first-dan, known as kyu: Sixth kyu is the lowest, up to First kyu – the highest. After the kyu grades Kendo students progress from First-dan up to Eighth-dan. Eighth-dan is the highest you can reach through testing.

How many levels are there in kendo? The dan levels are from first-dan (1st, shodan) to tenth-dan (10th, jūdan). There are usually six grades below first-dan, known as kyu. The kyu numbering is in reverse order, with first kyu (1st, ikkyū) being the grade immediately below first dan, and sixth kyu (6th, rokkyū) being the lowest grade.

Can kendo improve a person? Kendo, a Japanese martial art, can be used to improve one's physical, mental, and emotional well-being.

Why is there yelling in kendo? Easily imagined, it can increase our physical strength and also mental strength by shouting a lot. Shouting helps you to get rid of a lot of “thoughts” including fear and hesitation. It helps you focus more. Those senseis with high grade are rather quiet but they have gone through the “being loud” phase.

Do you spar in kendo? There are swords. But kendo, at its ancient heart, is a martial art of the mind. THERE IS NO trash-talking in kendo.

Is kendo like real sword fighting? Kendo is a Japanese martial art based on traditional swordsmanship. Practitioners face each other using flexible bamboo swords while wearing protective gear and try to strike specific locations on their opponents' bodies. Kendo is derived from traditional Japanese swordsmanship.

Is kendo popular in usa? Kendo is widely practiced among students (required in high schools), police, and military groups in Japan and to a lesser extent in the United States, Canada, Great Britain, and Brazil. See martial art.

Is kendo done barefoot? Do you wear shoes/socks/sandals/skates when doing kendo? No; kendo is done entirely barefoot, so clean feet and cut toenails are required.

How much is a kendo lesson? The average price of Kendo lessons is £14.

Can you learn swordsmanship by yourself? Yes, you can! It is possible to learn sword fighting by yourself if you have good instruction from books, videos or even a distance learning course.

Is it too late to start kendo? No. Kendo is for life. Whenever you want to start Kendo, it is time to start. We have members from 6 years old to over 60 years old.

Is kendo physically demanding? Kendo can be very physically demanding as the training is very intense.

Can you start kendo as an adult? You're never too old to start practicing Kendo. Kendo is an accessible martial art that many can practice throughout the entirety of their lives. Kendo can be a great experience, and we invite you to practice with us regardless of age.

What is the easiest fighting style to learn alone? Basic Boxing The sport may be practiced alone and without the need of a partner. As students progress, they learn to become agile; trainees also come to realize their strength potential. Boxing requires only gloves, but practice can be accomplished without gear. Like karate, basic boxing involves stances.

Can you learn kendo at any age? Kendo is open to all ages and members range from our juniors at 5 years of age to some in their 80s.

Can you actually learn 3 sword style? However, Three Sword Style requires a grueling amount of tedious training to develop both the superhuman arm and jaw strength as well as the immense ambidexterity required to effectively use all three swords as Zoro had to do all sorts of abnormal training exercises from his childhood to young adult life to master it.

Why is kendo so expensive? Kendo equipment can be costly for a number of reasons: High-quality materials are used to create kendo equipment like the shinai (bamboo swords), bogu (armour), and hakama (pleated pants). These items are made to last for many years. The equipment can be expensive to construct because of its durability.

What can you not do in kendo? Smoking, chewing gum and eating are not appropriate in the dojo. Hats are not worn in the dojo. Jewelry is not worn during Kendo practice. If you desire to leave jewelry on for any reason, it must be taped flat to your skin so that it cannot snare a shinai.

Do you have to shout in kendo? Giving out a loud shout to show your fighting spirit (kiai) when you make a cut is an essential part of kendo. Kendo is a noisy martial art and this can feel odd at first - but you'll get used to it!

What is the most common injury in kendo? Schultzel et al. evaluated the prevalence and characteristics of injuries in Kendo [12]; 74% of men and 83% of women reported injuries to two or more body parts. The common injury sites were foot/ankle (65.1%), wrist/hand (53.5%), and elbow/forearm (48.8%). The injury types were bruising, abrasion, and strains/sprains.

Is kendo an expensive sport? Since almost all the Kendo clubs of the Pacific Northwest Kendo Federation (a non-profit organization) are run through local city Parks and Recreation departments, the costs of joining a Kendo class is relatively inexpensive, particularly when compared to other private martial arts.

Is kendo useful in a fight? It would give you some familiarity with wielding a katana and having a sword against two knife wielders would give you a shot. However, kendo is more geared towards the sporting side than actual self defense.

What are kendo students called? KENDOKA: Although it literally means “an expert in Kendo” it is usually applied to everyone training Kendo. Kenshi is used as a more correct term. KENDOGL: Training jacket, made out from thick cotton, used under the protective armor (Bogu).

Can you use a Katana in kendo? Hence, Senseis (teachers) only recommend this Kendo sword for practicing and mastering advanced Kendo techniques, such as defending, sword swinging, and Katana attacking. It can help students hone their skills and other Katana moves they can employ in Shinai tournaments or duels.

Do you have to be barefoot for kendo? You have to train on the concrete floor. Preferably bare feet. But if it hurts or is too dangerous, you should wear shoes. But yes, there's a strong possibility to develop bad habits.

Unit 1: Human Resource Management

Q: What is Human Resource Management (HRM)? A: HRM is a crucial aspect of business that involves managing the people who contribute to an organization's success. It encompasses all aspects of employee relations, from hiring and training to compensation and performance management.

Q: What are the key functions of HRM? A: HRM functions typically include recruitment and selection, employee benefits and compensation, employee development and training, employee relations, and health and safety management.

Q: Why is HRM important for organizations? A: HRM plays a vital role in achieving organizational goals by ensuring a skilled and engaged workforce. It helps organizations attract and retain top talent, improve employee productivity, and create

a positive and inclusive work environment.

Q: What are the challenges facing HRM today? A: HRM faces several challenges, including technological advancements that are changing the nature of work, the need to manage a diverse workforce, and the rise of remote work.

Q: What are some of the latest trends in HRM? A: Current trends in HRM include a focus on digital transformation, data-driven decision-making, and the adoption of innovative strategies to enhance employee engagement and well-being.

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