

# SOAL DAN PEMBAHASAN UN FISIKA SMA FISIKA STUDY CENTER

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### Soal dan Pembahasan UN Fisika SMA: Fisika Study Center

#### Paragraf 1

##### Soal:

Sebuah bola bermassa 2 kg dilempar vertikal ke atas dengan kecepatan awal 20 m/s. Berapa ketinggian maksimum yang dapat dicapai bola?

##### Pembahasan:

Gunakan persamaan energi mekanik:

$$E_k = E_p$$

$$\frac{1}{2} mv^2 = mgh$$

$$20 \text{ m/s} = g h$$

$$h = \frac{20^2}{9,8} = 41 \text{ m}$$

#### Paragraf 2

##### Soal:

Sebuah benda bergerak dengan percepatan 5 m/s<sup>2</sup>. Jika kecepatan awal benda 10 m/s dan bergerak selama 4 sekon, berapa jarak yang ditempuh benda?

##### Pembahasan:

Gunakan persamaan:

$$v = u + at$$

$$v = 10 + 5 \times 4$$

$$v = 30 \text{ m/s}$$

$$s = v t = 30 \times 4 = 120 \text{ m}$$

### **Paragraf 3**

#### **Soal:**

Sebuah pegas memiliki konstanta pegas 100 N/m. Jika pegas ditarik sejauh 5 cm, berapa besar energi potensial pegas?

#### **Pembahasan:**

Gunakan persamaan energi potensial pegas:

$$E_p = \frac{1}{2} k x^2$$

$$E_p = \frac{1}{2} \times 100 \times 0,05^2$$

$$E_p = 0,125 \text{ J}$$

### **Paragraf 4**

#### **Soal:**

Sebuah rangkaian listrik terdiri dari resistor 10 ohm dan kapasitor 100  $\mu\text{F}$ . Jika rangkaian dihubungkan dengan sebuah arus bolak-balik dengan frekuensi 50 Hz, berapa hambatan kapasitif kapasitor?

#### **Pembahasan:**

Gunakan persamaan hambatan kapasitif:

$$X_c = 1/(2\pi fC)$$

$$X_c = 1/(2 \times 3,14 \times 50 \times 100 \times 10^{-6})$$

$$X_c = 63,66 \text{ ohm}$$

## Paragraf 5

### Soal:

Sebuah benda bermuatan listrik  $10 \mu\text{C}$  diletakkan pada jarak 10 cm dari benda lain bermuatan  $-10 \mu\text{C}$ . Berapa besar gaya coulomb antara kedua benda?

### Pembahasan:

Gunakan persamaan gaya coulomb:

$$F = k q_1 q_2 / r^2$$

$$F = 9 \times 10^9 \times 10 \times 10^{-6} \times (-10 \times 10^{-6}) / 0,1^2$$

$$F = -9 \text{ N (gaya tarik menarik)}$$

## WSOP 2018 Tournament Schedule

**Q: When is the WSOP 2018?** A: The World Series of Poker (WSOP) 2018 will take place from May 29 to July 17 at the Rio All-Suite Hotel & Casino in Las Vegas, Nevada.

**Q: What is the tournament schedule for the WSOP 2018?** A: The WSOP 2018 tournament schedule consists of 78 events, including the \$10,000 No-Limit Hold'em Main Event. The schedule also includes a variety of other events, such as pot-limit Omaha, seven-card stud, and mixed games.

**Q: How much does it cost to enter the WSOP 2018 Main Event?** A: The buy-in for the WSOP 2018 Main Event is \$10,000. There are also a variety of satellite tournaments available that can provide players with a chance to win a seat in the Main Event for a lower price.

**Q: What is the prize pool for the WSOP 2018 Main Event?** A: The prize pool for the WSOP 2018 Main Event is expected to exceed \$60 million. The winner of the

Main Event will receive a bracelet and a share of the prize pool.

**Q: How can I register for the WSOP 2018?** A: Players can register for the WSOP 2018 online or at the Rio All-Suite Hotel & Casino. Registration for the Main Event opens on May 29.

### **Téléchargement des revues techniques pour Laguna II 1.9 dCi**

#### **Q1 : Où puis-je trouver des revues techniques pour ma Laguna II 1.9 dCi ?**

R1 : Les revues techniques officielles sont généralement disponibles auprès des concessionnaires Renault ou sur des sites Web spécialisés. Vous pouvez également rechercher des revues techniques non officielles sur les forums et les sites de partage de fichiers.

#### **Q2 : Y a-t-il des versions gratuites disponibles ?**

R2 : Bien qu'il soit possible de trouver des versions gratuites de revues techniques en ligne, il est important de vérifier leur authenticité et leur exhaustivité. Les versions gratuites peuvent manquer d'informations importantes ou contenir des erreurs.

#### **Q3 : Quelles sont les informations contenues dans une revue technique ?**

R3 : Une revue technique fournit des informations détaillées sur l'entretien, les réparations et le fonctionnement d'un véhicule. Elle comprend généralement des schémas de câblage, des spécifications techniques, des procédures de diagnostic et de réparation étape par étape.

#### **Q4 : Pourquoi est-il important d'avoir une revue technique ?**

R4 : La possession d'une revue technique peut vous permettre de :

- Effectuer vous-même des réparations de base et économiser sur les coûts de main-d'œuvre
- Diagnostiquer les problèmes et éviter les réparations inutiles
- Comprendre le fonctionnement de votre Laguna II 1.9 dCi et prendre des décisions éclairées concernant son entretien

#### **Q5 : Où dois-je stocker la revue technique ?**

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R5 : Il est préférable de conserver la revue technique dans le véhicule pour un accès facile. Vous pouvez également la numériser et la stocker sur votre ordinateur ou votre téléphone portable pour une consultation pratique.

## **The Arab Civilization: A Historical Legacy**

### **Q: What is the Arab civilization?**

A: The Arab civilization encompasses the cultural, scientific, and technological achievements of Arab-speaking societies from the 7th to the 15th centuries. It emerged with the rise of Islam and the expansion of the Arab Empire, spanning a vast region from Spain to India.

### **Q: What were some of the key contributions of the Arab civilization?**

A: The Arab civilization made significant contributions to science, mathematics, medicine, literature, and the arts. Notable achievements include the development of algebra, trigonometry, and the astrolabe, the advancement of medical knowledge through the works of Ibn Sina and Al-Razi, and the flourishing of poetry, prose, and architecture.

### **Q: What were the factors that led to the decline of the Arab civilization?**

A: The Arab civilization experienced a gradual decline from the 12th century onward. Factors contributing to its decline include internal political instability, the Mongol invasions, and the loss of territories to European powers. However, its influence continued to be felt in later civilizations.

### **Q: What is the lasting legacy of the Arab civilization?**

A: The legacy of the Arab civilization is extensive. It shaped the development of modern science, mathematics, and medicine. Its literature, architecture, and art continue to inspire and influence contemporary cultures. Furthermore, it played a pivotal role in the spread of Islam and the cross-fertilization of ideas between East and West.

### **Q: How is the Arab civilization being preserved and celebrated today?**

A: Efforts are being made to preserve and celebrate the heritage of the Arab civilization through initiatives such as archaeological excavations, museum exhibitions, and the promotion of cultural exchange. Many Arab countries have designated historical sites and monuments as UNESCO World Heritage Sites, recognizing their importance as symbols of a rich and diverse civilization.

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