

MECHANICAL ENGINEERING METAL CUTTING VIVA QUESTIONS

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What is the principle of metal cutting process? Principle of Metal Cutting covers a large collection of manufacturing processes designed to remove unwanted material, usually in the form of chips, from a work-piece. The term machining is used to describe various processes which involve removal of material from the work piece.

What are the three parameters of metal cutting? These process parameters are selected on the basis of workpiece and tool materials. From the literature survey it has been observed that the main cutting parameters in machining are feed, cutting speed and depth of cut.

What type of machinery is used to cut metal? Machines used to cut metal include lathes, milling machines, drilling machines, boring machines, and machining centers. Mother machines are machines that enable other machines to function.

What is the cutting process in metal work?

What are the two methods of metal cutting? An Overview of Sawing/Saw Cutting
The primary types of saw cutting employed by manufacturers are circular saw cutting and band saw cutting. Circular saw cutting uses a circular blade that cuts material as it spins, while band saw cutting uses an extended straight blade that provides continuous, uniform action.

What is cutting ratio in metal cutting? It is the ratio of chip thickness before cut (t_1) to the chip thickness after cut (t_2). chip thickness after the cut (t_2) is always greater than the chip thickness before the cut (t_1), r is always 1, i.e. the uncut chip thickness value is less than the chip thickness value.

What is the temperature of metal cutting? In dry conditions, when the cutting speed is 12.6 m/min, the cutting temperature is below 350 °C; when the cutting speed is >48 m/min, the cutting temperature is above 350 °C. Fig. 6. Cutting temperature at different cutting speeds in dry and LN2 conditions.

What chemical is used to cut metal? Acetylene is used in welding and cutting of metals. Oxygen and acetylene gases (Oxyacetylene) are used and the process is called as oxyacetylene welding.

How to calculate cutting speed? Cutting Speed = $\pi DN / 1000$ m/min. To keep the cutting speed constant while machining various diameters, the spindle rpm is varied. Find the cutting speed, when a cylinder of 25 mm diameter is machined at 4500 rpm. The formula to find the cutting speed is = $\pi DN / 1000$ m/min.

What tool is best for cutting metal? Hacksaws are a tried-and-true choice for cutting metal, offering a combination of precision and control when used correctly. These handheld tools come equipped with fine-toothed blades designed specifically for cutting through metal.

What are metal cutters called? Snips, also known as shears, are hand tools used to cut sheet metal and other tough webs. It is a cutting tool. Workers use various types of snips, with the cutting edges being straight or curved to various degrees. The style of edge employed will depend if a straight sheer or some type of shapes cut is necessary.

Which motor is used in metal cutting machine? Z2 motors generally for the industrial DC motors, which are suitable for constant power speed range of not more than 1: 2, electric driving ability of overload not greater than 1.5 times the rated torque, also can be used for metal cutting machine tools, paper making, dyeing and weaving , printing, cement and other ...

What are the basic principles of metal cutting? During metal cutting, high forces act in the contact region between tool and work piece material. The chip formation process involves plastic deformation at the shear zones, generating heat and contact stress in the tool [1,14,19,20] and the tool is subjected to abrasive and adhesive wear.

What is the mechanism of metal cutting? In this configuration, the cutting tool advances into the workpiece in a direction perpendicular to the cutting edge. As the tool advances into the workpiece, material deforms by shear along a plane called the shear plane, resulting in the formation of a chip.

What is the mechanical process of cutting? Mechanical. This process involves the use of physical forces to cut an object. Examples of this type of cutting include sawing, shearing, and drilling. Mechanical tools work by placing the cutting mechanism, such as a blade, into physical contact with the object being cut.

What is the fastest metal cutting method? Waterjet cutting is the most precise cutting method with a tolerance of ± 0.001 ?. Laser cutting can also provide similar accuracy to this value. However, laser cutting creates heat-affected zones which reduce its accuracy to some extent.

What is the difference between cutting and machining metal? Definition of metal cutting Machining is also known as metal cutting, however, it can also cut other materials such as wood, plastics, ceramics, etc. This is the conventional machining process. The figure is drawn on Orthogonal Plane, and thus the suffix 'O'.

What are the factors affecting metal cutting? CUTTING SPEED, DEPTH OF CUT, FEED, CUTTING FLUIDS FORCES, POWER, TEMPERATURE RISE, TOOL LIFE, TYPE OF CHIP, SURFACE FINISH. TOOL ANGLES AS ABOVE, INFLUENCE ON CHIP FLOW DIRECTION, RESISTANCE TO TOOL CHIPPING.

What are the metal cutting parameters?

What is the depth of cut cutting? The depth of cut is simply how deep the tool cuts in the workpiece in one turn. Commonly, the cutting depth is 4 times the diameter of the cutting tool for large diameters above 20mm and 10 times the diameter size for smaller tool diameters.

What is the formula for chip thickness? Triangular Chip Thickness $h_{cu} \cdot \max = 3 \cdot h_{cu}$. Example 14.9 Estimate mean and maximum values of chip thickness and chip width for a triangular cutting edge from the data in Example 14.6. $h_{cu} = [2 \times 300 \cdot 0.25 \times 10 \times 40000 \times 1 \cdot 0.02 \cdot 200]^{1/2} = 0.0077 \text{ mm (or } 0.0003 \text{ in .)}$

What are the principles of cutting? According to the cutting principle, the cutting edge should be located on the conjugate surface of the theoretical tooth surface. In tool design, the conjugate surface is calculated first, and then the cutting edge is selected from the conjugate surface.

What is the working principle of metal? Metals are generally deformed at specific temperature and strain rate so that recovery takes place simultaneously with the deformation. This is known as hot working. When recovery processes are not effective at the time of deformation, the processes are called cold working processes.

What is metal cutting theory? The process of metal cutting involves the removal of excess material from a workpiece in the form of a chip using a wedge-shaped tool. From: Tribology Series, 2000.

What is the basic of metal cutting? Metal cutting is among the most common processes for raw material processing. Metal cutting processes shape raw sheet metal like mild steel for further manufacturing techniques. Advanced metal cutting techniques like waterjet cutting can directly create the final part from raw metal sheets and blocks.

Soal PLPG 2017 dan Kunci Jawaban Terbaru Tahun 2017

Uji Kompetensi Guru (UKG) yang dulu dikenal dengan sebutan PLPG (Pendidikan Profesi Guru) merupakan sebuah syarat wajib yang harus dipenuhi oleh setiap guru yang ingin mendapatkan sertifikat profesi sebagai guru profesional. Nah, pada tahun 2017 ini, UKG kembali digelar dan tentunya dengan soal-soal yang baru.

Seperti tahun-tahun sebelumnya, UKG 2017 juga terdiri atas beberapa bagian, yakni:

- Pedagogik
- Kompetensi bidang studi
- Esai

Untuk membantu para guru dalam mempersiapkan diri menghadapi UKG 2017, berikut ini adalah beberapa contoh soal PLPG 2017 beserta kunci jawabannya:

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Bagian Pedagogik

1. Manakah dari pernyataan berikut yang merupakan ciri-ciri pembelajaran aktif?
(A) Guru sebagai pusat belajar (B) Siswa terlibat aktif dalam proses pembelajaran (C) Metode ceramah banyak digunakan (D) Suasana belajar kaku dan pasif **Kunci Jawaban: B**
2. Prinsip pembelajaran yang mengutamakan keterlibatan fisik, emosional, dan kognitif siswa dalam proses belajar disebut prinsip pembelajaran: (A) Holistik (B) Humanistik (C) Kontekstual (D) Konstruktivisme **Kunci Jawaban: A**

Bagian Kompetensi Bidang Studi

1. Konsep bilangan prima adalah: (A) Bilangan asli yang hanya memiliki dua faktor, yaitu 1 dan bilangan itu sendiri (B) Bilangan asli yang hanya memiliki tiga faktor, yaitu 1, 2, dan bilangan itu sendiri (C) Bilangan asli yang dapat dibagi habis oleh bilangan 1, 2, dan 3 (D) Bilangan asli yang tidak dapat dibagi habis oleh bilangan selain 1 dan bilangan itu sendiri **Kunci Jawaban: A**
2. Sebuah balok memiliki panjang 10 cm, lebar 5 cm, dan tinggi 8 cm. Berapakah volume balok tersebut? (A) 400 cm^3 (B) 200 cm^3 (C) 100 cm^3 (D) 50 cm^3 **Kunci Jawaban: A**

Bagian Esai

1. Jelaskanlah pengertian dari metode pembelajaran diskusi dan sebutkan langkah-langkah dalam mengimplementasikannya di kelas!
2. Berikan contoh penerapan pendekatan saintifik dalam pembelajaran matematika!

What is salt in the sea about? In 1945, World War II is drawing to a close in East Prussia and thousands of refugees are on a desperate trek toward freedom, almost all of them with something to hide. Among them are Joana, Emilia, and Florian, whose paths converge en route to the ship that promises salvation, the Wilhelm

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Gustloff.

What tragedy is Salt to the Sea about? Salt to the Sea is a 2016 historical fiction young adult novel by Ruta Sepetys. It tells the story of four individuals in World War II who make their way to the ill-fated MV Wilhelm Gustloff.

What is the main message of Salt to the Sea? The main message of Salt to the Sea is the power of hope and resilience amidst the darkest times.

Is Salt to the Sea about the Holocaust? Salt to the Sea is a novel about escaping the holocaust and the many people impacted by Hitler and the Nazis. With the war raging all around everyone is in need of escape.

Is Salt to the Sea based on a true story? At the center of "Salt To The Sea" is the true story of a doomed German ship, the Wilhelm Gustloff. Late in the war, this one-time cruise ship became part of a massive evacuation of German soldiers and civilians plus refugees from Poland, Lithuania and beyond. All were fleeing the advancing Soviet army.

What is Florian's secret in Salt to the Sea? Florian's secret is his theft of the amber swan. Joana's secret is that she is a murderer because she feels responsible for her cousin Lina and her family being sent to a labor camp in Siberia. And Alfred's secret is that despite his allegiance to the Nazi regime, he is in love with a half-Jewish woman.

What happens in the end of Salt to the Sea? As a refresher, it ends with Emilia being in heaven, with her parents, brother, best friends, and an imagined version of Halinka. (Her daughter) Joana and Florian, now married, recieved a letter from a woman named Clara who found Emilia's body.

What is the main conflict in Salt to the Sea? Answer and Explanation: The conflict of Sepetys' Salt to the Sea is the main characters' fight for survival, as Joana, Florian, and Emilia are all refugees seeking to escape from Nazi soldiers. By the end of the novel, only Joana and Florian survive.

Is Salt to the Sea a love story? There is a bit, but it is very minimal. Basically, there is a German boy named Florian who falls in love with a young nurse, Joana. There aren't any explicit scenes, and the story isn't revolved around their relationship.

What is Joanas' secret in Salt to the Sea? Because Joana left a detailed letter for her cousin with her housekeeper when she left Lithuania, she unintentionally directed the Russians to her cousin's home and feels responsible for their tragic demise. This revelation brings Joana and Florian closer.

Why is it called Salt to the Sea? The title refers to the loss of life in the MV Wilhelm Gustloff disaster. It also refers to the way that salt dissolves back into the sea as a metaphor for the loss of life, culture, and identity, both in those who died in the disaster and those who survived only to become refugees in a new country.

Why should you read Salt to the Sea? This novel provides readers with another view of what refugees lived through during the tragic World War II era. The way that the author crafts the story, which is by using the four teens narrate the chapters, allows the readers to observe each of the teens' perspectives and values.

What is the amber room in Salt to the Sea? The Amber Room, in Salt to the Sea, was the chamber made of different jewels, such as amber, gold, silver, platinum, and palladium that Dr. Lange, Florian's mentor, empties. They both disassemble the room and transport the boxes until they hide them. This room historically exists.

What is the significance of the letter "at the end of salt to the Sea"? The letter at the end of "Salt to the Sea" is from a woman who tells Florian that she found Emilia's body on a raft, washed up onto their property. The letter provides closure to those who might want to know what happened to Emilia.

Is the Salt to the Sea accurate? While the four main characters are all fictional, the events in this novel are all real and, needless to say, the historical accuracy is exemplary.

Did Emilia survive in Salt to the Sea? Yes, Emilia dies in Salt to the Sea. Emilia dies due to the sinking of Wilhelm Gustloff, after a torpedo attack. She can't board the lifeboat, which is why she ends, in a raft, froze. However, one fact that the story clarifies at the end of the novel is that Emilia receives a proper burial.

Who is pregnant in Salt to the Sea? In Sepetys' Salt to the Sea, Emilia hides her pregnancy out of shame, as she'd gotten pregnant from being raped by Russian soldiers.

What is the main idea of Salt to the Sea? Answer and Explanation: The theme of Salt to the Sea is the importance of family.

What do the shoes represent in Salt to the Sea? In Salt to the Sea, someone in particular puts his mind towards shoes. This would be the shoe poet. He says to a character Florian, "The shoes tell the story." This statement can mean that the shoe poet can tell another person almost everything about what they did that day or in the past, according to their shoes.

How old was Florian in Salt to the Sea? Florian's year of birth is not stated in the novel, but he is described as young. He and Joana fall in love, and Joana is 21 years old, so we can assume that he is around the same age as her. If he is also 21 during the events of the novel, which is of course an approximation, that would put his year of birth at 1924.

Do Florian and Joana end up together? Yes, Joana and Florian married in Salt to the Sea. The novel clarifies it in the final chapter, where the story reveals that the couple had not only a long but also a happy marriage.

Do Florian and Joana have a baby? Joana and Florian get married, raising Emilia's baby and the little boy. The novel ends on a bittersweet note when Florian, 23 years later, reads a letter from a woman who discovered Emilia's raft on her beach in Denmark a month after the ship sank.

Is there a sequel to Salt to the Sea? There is not currently a sequel to Salt to the Sea, nor does the novel lend itself to having one. At the end of the book, two of the four main characters (Emilia and Alfred) are dead, and readers get a glimpse into the future of the survivors' lives in America.

Who survived Salt to the Sea? Of the four main characters in Ruta Sepetys's novel Salt to the Sea only half of the main characters survive: Florian and Joana. After the sinking of the ship MV Wilhelm Gustloff, Emilia and Alfred are put on one lifeboat and Florian and Joana are put on a separate lifeboat.

What is the climax of Salt to the Sea? The climax of Salt to the Sea occurs when the Wilhelm Gustloff, the refugee ship, sinks. The above happens due to an attack at the hands of the Russians with torpedoes, being the most chaotic and tragic moment

of the novel because of the many deaths that take place.

What is Florian's fate in Salt to the Sea? Florians fate is finding love and a family.

Who is the most important character in Salt to the Sea? All of the characters in Salt to the Sea by Ruta Sepetys showed exceptional courage, but Joana was perhaps the bravest of them all. Joana was fleeing from her home country of Lithuania when she joined a group of other refugees from many different countries.

Why is moringa banned? Moringa root and root bark are possibly unsafe. The roots and root bark contain toxic substances.

What is the bad side effect of moringa? Diarrhea and gastric issues: “[Consuming] excessive amounts of moringa can cause gastrointestinal distress,” explains Wheeler, likely due to its leaves' high iron content. Hemochromatosis: Hemochromatosis occurs when there's an excess of iron in the body, which can damage the heart, liver and pancreas.

What happens when you drink moringa every day? Besides revving up your metabolism, regulating your blood sugar, promoting hair growth, it can also help detoxify your liver. Young children, pregnant women and new mothers are especially advised to have moringa for nourishing their body and mind.

Does moringa really work for weight loss? The B vitamins in moringa leaves also boost conversion of foods to energy and increase metabolism. When the body absorbs and burns up food effectively, it registers weight loss. Although animal and test-tube studies show that moringa can reduce fat formation and enhance fat breakdown, no human study bears this out.

Who Cannot take moringa? Pregnant people and children should not take moringa in any form, as not enough research has been done in these populations. Always speak with your healthcare provider before starting any supplement.

Can moringa damage kidneys? Eating large amounts of moringa might be dangerous. Though the leaves give pregnant mothers plenty of vitamins and minerals, the bark may cause uterine contractions. Lab studies show that moringa could lead to liver and kidney damage, as well as infertility.

What does moringa do to a woman's body? Moringa powder may help regulate blood sugar levels, which can be particularly beneficial for women with Polycystic Ovary Syndrome (PCOS) due to its potential role in improving insulin sensitivity as PCOS is often linked to insulin resistance, where the body struggles to use insulin effectively.

Is moringa bad for your liver? Moringa might help protect the liver against nonalcoholic fatty liver disease. In one study, researchers fed guinea pigs a diet containing moringa leaves. Those that consumed a higher concentration of moringa had lower cholesterol and triglyceride levels and less inflammation in their liver.

What medications should not be taken with moringa? Some things to be cautious of: Moringa can possibly interact with diabetes, blood pressure and thyroid medications. Hence, it would be pertinent to ask your doctor if it is safe to take Moringa if you are taking such medications. Moringa Vinga only uses 100% USDA organic moringa leaves at clinically effective dosages.

Can moringa reduce belly fat? Animal and test-tube studies show that moringa can reduce fat formation and enhance fat breakdown (9).

What does moringa do to the hair? Stimulates Hair Growth Moringa oil also contains fatty acid compounds and antioxidants that improve blood circulation to the scalp, promoting hair growth. Increased blood flow nourishes the hair follicles and stimulates growth, leading to thicker and healthier hair over time.

What are the hidden benefits of moringa? To date, studies show that Moringa oleifera may lead to modest reductions in blood sugar and cholesterol. It may also have antioxidant and anti-inflammatory effects and protect against arsenic toxicity. Moringa leaves are also highly nutritious and should be beneficial for people who are lacking in essential nutrients.

Does moringa clean your gut? Moringa has been shown to support gut health by improving digestion and reducing inflammation in the gut. It also contains prebiotics, which help to promote the growth of beneficial gut bacteria.

Is moringa worth taking? Are There Health Benefits? Moringa has many important vitamins and minerals. The leaves have about as much potassium as a banana, and

about the same amount of vitamin C as an orange. It also has calcium, protein, iron, and amino acids, which help your body heal and build muscle.

How many times a week should you take moringa? Most people choose to take moringa every several days but not every single day for long duration of time, since it can cause laxative effects and an upset stomach when overused.

What is the problem with the moringa plant? Root rot, fruit and twig rot, and canker are the most common diseases that affect moringa. Root rot is by far the most common issue with moringa trees that are planted in soil with poor drainage.

How much moringa is toxic? Moringa oleifera is genotoxic at supra-supplementation levels of 3,000 mg/kg b. wt. However, intake is safe at levels ? 1,000 mg/kg b.

What do doctors say about moringa? Moringa contains a range of antioxidant and anti-inflammatory agents, such as quercetin, which may help protect cardiovascular health. Quercetin may help prevent lipid formation and inflammation, both of which can contribute to heart disease. Moringa may also have cholesterol-lowering properties.

Is moringa hard on the liver? The study concludes that the crude extracts of M. oleifera seeds exhibit potential as a natural remedy for liver diseases. The effects of M. oleifera extract suggest that it has potential as a preventive and therapeutic agent for liver damage.

[soal plpg 2017 dan kunci jawaban terbaru tahun 2017, salt to the sea, moringa natures most powerful superfood natural weight loss natural health natural anti aging superfoods superfood smoothies green smoothie natural tea coconut oil natural diet book 1](#)

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