

Title: bio-medi English

Jeop review

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- ✓ **Dictated:** 박지원, 이열, 전은한, 김우리엘, 심익태

🔊[0:30]

So, again, today's review is due to the fact other class having a hard time, giving a little extra help.

Again, your team has a thousand points. Then, the bonus questions are open for all teams, okay? If you don't have a thousand, then, the bonus is only for your team first to answer.

Good luck, and I need one member from each team to come forward now, and sit.

So send up one member.

You are sitting first. Good. So you can choose. Choose your topic and the point.

One thousand. Wow. Geez~

Okay, one hundred.

This is only for you. 200 points.

These are 4 methods of use for taking drugs. Method of use. So, how do you use drugs? We talked about four methods you can use drugs.

(Student Speaking)

So you say 'what are'... question. What are eating, ingest. Eating is ingesting. That's right. Okay. That's one.

What are ingesting, injecting... breathe? Breathing drugs? No.

Smoking. Smoking is inhaling. Okay. Smoking and inhaling. One more.

Snorting or intranasal. This is your nasal passage. So, intranasal or snorting. Very good. You got it.

Inhale, smoke. Ingest, eat. Inject, IV, or needle. And, Intranasally or snorting. Both.. all those are good. Very good.



🔊[3:10]

Team Radiation, you just got 200 points. Very good. Ok, change.

Remember also with the drugs we talked about... Some of those drugs we talked about, you can use many ways, many methods you can use.

Some drugs you can't. For example, alcohol.

How do you use alcohol? What method of use, alcohol? Ingest. You ingest it. You drink it. You eat or drink, ingest.

Marijuana? Inhale. You inhale, you smoke it, right? Tobacco? Inhale.

Methamphetamine? All.

Methamphetamine, you can do all.

You can eat it (because they are pills), you can inject it, you can smoke it, and you can snort it. So methamphetamine, all four you can do. Okay, good.

Next, Team Radiation, still.

Drugs, 200.

Wow! Only for your team, again. This is 800.

Using this substance reduces your appetite.

What are... Methamphetamine? Nope, 50 percent correct. There is one more. I said there are two answers. You said one.

What are tobacco and crystal meth? What are tobacco and crystal meth?

Crystal Meth. Exactly. It's two. You have to listen to me.

Alright, we talked about.. we smoke cigarettes. A lot of people smoke cigarettes, because they don't get hungry. When you smoke, you don't get hungry, when you smoke tobacco. It's something about that drug. So it reduces your appetite. Your wanting food is your appetite.

Crystal meth. Remember the picture in the Powerpoint? The women ... She lost a lot of weight. That's one of the thing. Crystal meth. You use that, you don't eat anything. So, good.

That was 800. Very good. What is your team? What team? Carbon. Carbon, you get 800 points. Very good. OK, change.

🔊 [6:04]

One hundred?

These animals produce...

What kinds of animals? What are cows and...?

You only need to tell me one, but you can continue. What else?

What are cows and... goat?

That's okay. You got it. You only have to tell me one animal.

We talked about cattle belching methane. Cows, cattle. Many cows, we call it cattle. So cows or sheep and ... horse? Horse is 'neigh'. Pigs. Alright? Cattle, sheep or pigs.

But you are right. You said cattle. So, that's good. Okay, very good. Team Carbon, or...

Random facts for 200. This is the hardest substance in nature.

Diamond.

Question?

What is diamond?

What is diamond? Very good. We talked about (you can sit) diamond. Diamond is the hardest substance. What else is diamond? It is the hardest and ...?

Clear. Clearest. It is the hardest. It is the clearest. And it is the highest boiling point. So diamonds are very good product, right? Okay, very good.

These are openings underneath plant leaves that are used during gas exchange. Openings are on the plant leaves that take in carbon dioxide, and then, it releases oxygen.

It begins with S. S...T... No answer? Beep, beep, beep. Okay, time is up. Students?

🔊 [09:02]

Stomata. Stomata on the leaves, right? Takes in the carbon dioxide and then we have the chemical reaction, and then, it release oxygen. Breaks down the CO₂, releases the oxygen. Alright, stomata.

Okay, change. No point.

Alright, we'll go to Drug Team.



(student speaking) radiation 200

Radiation for 200.

This type of decay or this type of radiation results...

(student speaking)

This type of decay results when a fast moving electron is emitted.

This is a type of radiation, radio-active decay, radiation where a fast moving electron is emitted.

We talked about three types of ionizing radiation.

(student speaking)

Gamma, what is Gamma radiation.

That is incorrect.

But it was very close.

We talked about three types: gamma... gamma is incorrect.

So what are the two types of ionizing radiation?

(student speaking)

What is alpha radiation?

So it's not gamma, it's not alpha...

No you already...

(student speaking)

What is beta radiation.

Three types of ionizing radiation, right?

Gamma radiation releases energy, extra energy. That's gamma radiation.

Alpha radiation is a helium nucleus, okay? That's the helium nucleus.

And then beta radiation releases the electron.

So, very good.



I don't know, very good, little bit.

Okay good.

(student speaking)

Radiation for 400.

Too late, you have to be louder.

This laboratory process, this is difficult one.

This laboratory process helps identify clues and find exact chemical signatures of objects.

(student speaking)

What is isotope. Okay, they are using radioactive isotope, but no.

🔊 **[12:03]**

Okay, let me finish.

This helps identify clues, and find exact chemical signatures of objects.

During radiation lecture we talked about CSI.

I told you the TV show called CSI.

They find the clues, and with their clues, they expose it to radiation, neutron radiation and when they do that, they can tell the exact chemical signature of the clue, or of the thing that they are exposing to radiation.

The name of this is called, I'll give you some clue.

Okay? Two words, ___ analysis.

(student speaking)

What is activation analysis.

Activation analysis is this testing that police or private investigator or scientists in a laboratory will do this. Activation analysis is correct very good.

(student speaking)

500. Oh, only for you this is thousands. If someone has a joint, they are using this drug.



If someone has a joint, you have to know what is this meaning: joint.

Let me give you a hint. I'll give you a hint.

We talked about 4 drugs. It is one of those 4. It is one of those 4

(student speaking)

What is crystal meth? Good guess, but that is not correct.

Anyone, thousand points.

(student speaking)

What is alcohol.

(student speaking)

What is cannabis. That is correct.

You had, he had 50% chance.

Okay, let me explain. I talked about this, I think, very quickly in the lecture.

Remember, how do you use, the method of use of cannabis.

🔊 [15:00]

So how do you use it?

How do you use cannabis?

Injection? Cannabis is from a plant. You don't inject it. Actually you could.

But instead, you inhale it. You smoke it right? Tobacco is smoke right? Tobacco is smoke with a, tobacco is 담배. What is 담배? 담배 in English.

Cigarette. Marijuana, 담배? No we call these, joints. That is called joints.

When you take Marijuana, you put it and make a marijuana cigarette. That is called joints.

So if you have a joint, what drug are you using?

Cannabis or marijuana. Okay. Very good.

(student speaking)



Carbon 400

Carbon for 100 is still available too, remember.

These are organisms that break down dead or decaying organisms.

(student speaking)

What are decomposers. Very good.

We talked about... decomposers breakdown dead things. Right?

Something dies, decomposers would break them down.

That is like fungus, fungi, right?

What are the other parts? There are decomposers, and producers producing what?

What do producers produce?

What do they produce? Oxygen. They produce oxygen and there are consumers.

And consumers consume oxygen and producers produce oxygen.

Producers producing oxygen, consumers consuming oxygen, and decomposers decomposing dead things and making CO₂.

Okay very good.

(student speaking)

Drugs for 500

These are three types of stimulants.

Now with drugs on the test this is very important.

Go, go, yeah. You want to try?

Tell me three types of stimulants.

(student speaking)

Oh... Cannabis is special. No. not cannabis.

Let me just say this hints. We talked about four drugs. You have to think of other drug.

Not in the four.

Two of the drugs we talked about are stimulants and two of those four drugs are stimulants.

One of those drugs is depressant. One of those drugs is stimulants and depressant and the hallucinogen.

🔊 [18:00]

So to make three stimulants, I said types, you have to think of extra one.

But what is a stimulant? What does that mean? Stimulant.

(student speaking)

Yes, gives you energy.

So tell me three drugs, three types of drugs I give you energy.

You want to try it again?

Try again. You can do it. I will give you a little hint.

Tell me three drugs that give you energy. Yes? What are...?

Student: What are... tobacco?

Tobacco gives you energy. Yes. Tobacco is a stimulant. If you smoke it, it gives you quick energy.

Increase your heart rate and increase your blood pressure that makes you be more stimulated. And..?

(Student speaking)

Crystal meth. Yes, crystal meth, you take it, your heart rate goes up very quickly and your blood pressure goes up.

It gives a lot of energy. Good. That is a stimulant.

Now you have to think one by yourself. Think.

When people get tired, people are...(yawn) I need energy. What drug did you take?

Student: alcohol?

Oh, you probably do. Remember, alcohol does not give you energy.



Alcohol relaxes you. Some people think it give some energy but maybe you with your friends.

Okay. Alcohol is a depressant. Takes away, it relaxes you.

(Student speaking)

What are caffeine

(Student speaking)

Crystal meth and tobacco.

Good. Good. You guys have to think. What drugs give you energy. Yeap.

You get up at the morning, people they get their coffee, they get a little energy.

Okay. So caffeine gives you energy, crystal meth and tobacco.

And also there is one more. Anybody one more, we did talk about very little.

You can snob it. It is very addictive drug. White powder. Gives you a lot of energy. Increase your heart rate. People get energy. Illegal drug.

Begins with the C. cocaine. Okay.

You guys didn't know cocaine gives you energy?

🔊[20:59]

People take cocaine, they get a lot of energy, their heart rate and they maybe moving around very quickly okay.

It's an illegal drug of course. It's an illegal drug.

Cocaine, methamphetamine are illegal stimulants. They're illegal.

Legal, legal stimulants. tobacco

Legal

(student speaking)

Stimulant.

Student: caffeine.

caffeine

You guys can get caffeine right here right? In the coffee machine., you can get caffeine.

That's legal. Tobacco, you can go to store to buy tobacco. That's legal.

Illegal, cocaine. Okay? You can't go and buy cocaine, but cocaine is stimulant.

Crystal meth is a stimulant too. It's a illegal right?

So next week, remember stimulants. Know what drugs are stimulants. Know what drugs are depressants. It's in your vocabulary and know legal and illegal. That's important. Okay? Good.

Team?

Student: Radiation.

Team radiation.

(Student speaking)

Drugs for 400.

Alcohol and heroine are these types of drugs.

(Student speaking)

She was listening. Alcohol, I told you, is a depressant.

Heroine, also heroine is an illegal drugs so here.

Legal depressant, illegal depressant.

This drug, If you take heroine? You are completely relaxed, and you feel no pain.

So this drug is very dangerous. Because it's addictive, very addictive drug.

You feel good, no feeling, very relaxed and comfortable. So people don't move. They are lazy.

Okay, Both of these are called depressants. Very good.

Team?

(Student speaking)

Radiation for 500.

Drug team wants to get points.



This radioactive element is used a fuel to make much of our electricity.

This is a radioactive element. We find in the ground. We dig for it in the ground, because we can get electricity. It helps us.

(Student speaking)

What is uranium? That is correct. Uranium is used to give us electricity, right?

We dig in the ground and that is very valuable element. Very good. It is radioactive. Good.

Carbon 500.

🔊[23:58]

These are three fossil fuels that can be found in the geosphere.

Three fossil fuels we dig in the ground to get them. We drill in the ground to get this fossil fuels. We talked about it.

Remember the lecture, I showed you plastic bag. And I said that carbon in this plastic and you said 'Yes, teacher.'

And I said how, because it comes from ... what does plastic come from?

What is in the ground? We dig and it comes out, it's black.

Student: What are... oil?

What are... oil? Black color. Rock, Kind of rock. It is black. 석탄.

Student: oil. Coal?

What are oil, coal?

Student: and....

Begins with P. Another one begins with N. NG, two words. NG.

Petroleum.

What are... petroleum. oil.

Oil petroleum are very same, but okay.

Petroleum, oil, coal, and Natural gas.



Natural gas okay. These are fossil fuels. There In the ground. Okay?

Alright. I'll give you points for...

Okay. Here they are. Coal, petroleum, natural gas. Okay, oil.

What kind of carbon recycling is this. Fast track or slow track?

(Student speaking)

Okay. This is slow track carbon recycling. In the geosphere, right? Yes.

Okay. Change. Which one?

Drugs for 300. Oh 600 points, for your team only. Drug team.

This is when someone takes too much of a drug which can lead to death.

🔊[27:03]

(Student speaking)

Uhm. Careful. Let me explain.

This is a word. This word means when someone takes too much of drugs.

So It's not... I don't want a drug. Don't tell me the name of drug.

What is called when someone takes too much of drug, for example some movie stars.

They would take too much of drug, and then they died so that people they said, the movie star 000 on the drug.

They took too much so that they said, they over 000, over 000.

Do you know? Do you want to try?

Over... Vocabulary word for me drug lecture.

Overdose, overdose... In English, sometimes you say it, OD.

The person OD, ok?

That means overdose too much of the drug they took too much, they die.

Overdose, so taking in overdose can be very bad.



Right, I'll be let the, you guys stay one more time choose other one, go team.

400, you're very good chooser.

Ok, this is for a 1200.

This is what usually happens after someone drinks too much alcohol.

So, you, you go to **공동** tonight, and you are having **삼겹살** and drinking **소주**, and you have one **소주**.

Oh, that was really good. I want another one.

Oh, that was good too.

Alright, after you have 3 **소주**, what will happen?

What, what happen? This usually happens after you drink too much.

(Student Speaking)

Question, what is vomit?

That is correct, very good. If you drink too much alcohol, your body gets poison, and so you are going to vomit or throw up or puke or burp or blow chunks.

🔊[30:00]

Ok, very good, vocabulary for 400.

These chemicals are known to cause cancer.

Vocabulary from drug lecture, in tobacco caught many chemicals in tobacco.

These chemicals cause cancer.

Begins with the 'C', begins with the 'C', car...000.

If you can't, you don't... ok, let's skip.

Carcinogens, this is in the lecture, difficult.

Carcinogens, carcinogens are chemicals in that report into tobacco.

That's why tobacco is dangerous for you, alright, cause cancer.

Carcinogens are chemicals can cause in you.

Ok, let's choose another one, radiation.

This is very similar to breathing.

Carbon lecture, similar to breathing, it begins with 'R'.

What is respiration? It's correct, breathing, respiration, random, 300, ok, change.

This is the result of excess too much CO₂.

What is greenhouse effect? That is correct.

Greenhouse effect, too much CO₂ in environment, is cause greenhouse effect which gun causes global warming, very good, ok.

This is for anyone, any team.

This is when you have a strong desire to have something.

This is a vocabulary word, begins with the 'C'.

It's when you really want something.

It can be drug, or it could be even a food.

If I really want chocolate, I call 000, 'cr...'

🔊[33:00]

People smoke cigarettes, question.

What is craving? That is correct.

You are craving something. You really want it.

We talked about smoking, especially what smoking, people who smoke, they try to quit.

Is it easy to quit smoking? No.

The people are always craving a cigarette.

Maybe, they eat food, way I am tell you that finish eating, I need my cigarette.

They are, that's called craving, craving a cigarette.

Some people crave chocolate, very good.



400, this is energy that is released, travels through space and is later absorbed by another body or another thing.

This is for anyone. Energy, this is easy, this is 100 points.

Think, it is not difficult, energy that travels through space and goes into something.

What are x-rays? X-ray is its type of this.

That's correct but more general answer.

Any energy that goes through space, and it's absorbed by something.

That's another example.

Give me general answer.

What is radiation?

This is the definition of radiation.

This is what radiation is.

100 points, radiation, answer radiation, energy that travels through some space and goes into something, is radiations can be x-rays.

It can be a thermal, heat radiation, can be sun light.

It can be any energy, right?

So, this is radiation, very good, so, 400 points, team Carbon.

On the test, we talked about types of radiation.

There is ironizing radiation, and there is non-ironizing radiation, and I know, if you get the, I think it's in the lecture note, definitely on the PowerPoint.

I talked about different types of radiation, ok?

You might want to know those.

Ok next, quickly, this alcohol drink is most popular in Korea and has about 20%...

🔊[36:00]

What is 소주? It is correct.

Popular in Korea has about 20% ethanol, yes.

소주 has about 20%.

What drink has about 5%? Beer. 12%? Wine, 백세주, about 12%.

소주 is little higher than wine right? Little bit higher.

That's why 소주 can be a little dangerous.

What alcohol drink 40%? Whisky or liquor, any kind of liquor whisky, vodka, things like that about 40%. Okay very good.

Carbon 200

Oh 600 for anyone. This is the air surrounding the Earth's crust.

What is the atmosphere.

What is the atmosphere is correct. Very good.

We talked about 4 spheres, atmosphere, geosphere, biosphere, hydrosphere. Good.

Those are 4 spheres, carbon cycle. Very good.

Vocabulary 100

This is the process of converting light energy to chemical energy and storing it as sugar.

Photosynthesis

Question. What is photosynthesis? Correct. Very good.

Last question.

This radioactive isotope is used to find the age of...

What is carbon... bam

Radioactive isotope more... is used to find the age of organisms long after they have expired.

She... incomplete answer.

What is carbon...



What is carbon dioxide? No... Do you know?

Carbon... carbon is an element on... this is a radioactive isotope of carbon.

What is carbon... I can't here you.

Carbon18 no not carbon18

You want to try? Carbon80, no, I don't know that one.

🔊[39:00]

Carbon 13. Carbon electrode.

Guys. Carbon 14. Carbon 14 carbon 14. 13 no. Okay but there is carbon 13.

Carbon 14 is what they use.

It's called when they do this , they use this radioactive isotope of carbon to find the age of things right?

Because they can read how much carbon is decaying, the carbon that's decaying.

This is called carbon dating using carbon 14 okay? 18, 13 almost.

Okay, so I will bring you some paper very secret.

Write down your betting amount and you are going to choose your 천재학생 right?

Your smartest member and that member will be answering the final question so make your bet secret.

These are the three allotropes of carbon.

We talked about three allotropes of carbon.

Today in the lecture we talked about one of them. Today in the game we talked about one of them.

Spelling I don't care, spelling no problem.

I will give you a hint, do you want a hint? You all want a hint? Okay.

One of the allotropes we talked about today is the hardest substance in nature.

Another one of the allotropes is used to make golf club Sheaf, tennis racket, automobiles, airplanes.

And the last allotrope is we talked about buckeye balls, and nano-tubes.

I'll be then give you more hint. G, D, G, F

🔊[42:06]

I can't give any more hint than that. You should be able to get at least one. You got one.

Okay, we start with drug team since they're in 4th place.

Okay drug team betting 1200 for answer, what are... what are. I'm sorry drug team.

Radiation team betting 1800, wow all then, radiation team what are diamond, graphite, fullerenes.

Okay the spelling is not right but I understand it, yes that is correct.

So we have 3600. You are now in first place.

We will go to carbon, carbon team betting 1000points.

What are dormant... sorry, minus a 1000, 1700.

And the last one let's see. Random betting 300, this could tie the score.

Figured it right, only tie.

Random what are, graphite, diamond, fullerenes, wow team random that is correct.

300points that gives you a tie so it looks like 가위바위보, no I would not do that.

All members will get the bonus. Very good. Very excellent job.

Three allotropes we talked about diamond, yes, graphite and fullerenes. Yeah the fullerenes.

Very good, so congratulations to radiation team and random team you will get a bonus on your test.

🔊[45:00]

All right next week, the test 21 questions come here at 3o'clock the test will take you uh 30minutes to 1hour.

So we will, you won't be here whole time.

And it is not going to be filmed so don't worry.



Okay thank you guys.

