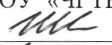


**ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ПРОФЕССИОНАЛЬНОЕ
ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ИРКУТСКОЙ ОБЛАСТИ
«ЧЕРЕМХОВСКИЙ ГОРНОТЕХНИЧЕСКИЙ КОЛЛЕДЖ ИМ. М.И. ШАДОВА»**

Утверждаю
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« 16 » 06 2021 г.

**Комплект контрольно-оценочных средств
по учебной дисциплине**

ОГСЭ.03 Иностранный язык

программы подготовки специалистов среднего звена
по специальности СПО

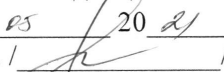
21.02.15 Открытые горные работы


Черемхово, 2021

Комплект контрольно-оценочных средств разработан на основе Федерального государственного образовательного стандарта среднего профессионального образования по специальности 21.02.15 Открытые горные работы, базовый уровень, программы учебной дисциплины Иностранный язык.

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I. Паспорт комплекта контрольно-оценочных средств

В результате освоения учебной дисциплины Иностранный язык обучающийся должен обладать предусмотренными ФГОС по специальности СПО **21.02.15 Открытые горные работы** общими компетенциями:

ОК 1. Понимать сущность и социальную значимость своей будущей профессии, проявлять к ней устойчивый интерес.

ОК 2. Организовывать собственную деятельность, выбирать типовые методы и способы выполнения профессиональных задач, оценивать их эффективность и качество.

ОК 3. Принимать решения в стандартных и нестандартных ситуациях и нести за них ответственность.

ОК 4. Осуществлять поиск и использование информации, необходимой для эффективного выполнения профессиональных задач, профессионального и личностного развития.

ОК 5. Использовать информационно-коммуникационные технологии в профессиональной деятельности.

ОК 6. Работать в коллективе и команде, эффективно общаться с коллегами, руководством, потребителями.

ОК 7. Брать на себя ответственность за работу членов команды (подчиненных), результат выполнения заданий.

ОК 8. Самостоятельно определять задачи профессионального и личностного развития, заниматься самообразованием, осознанно планировать повышение квалификации.

ОК 9. Ориентироваться в условиях частой смены технологий в профессиональной деятельности.

Учебным планом колледжа предусмотрена промежуточная аттестация по учебной дисциплине **Иностранный язык** в форме **дифференцированного зачета**.

II. Результаты освоения учебной дисциплины

В результате аттестации осуществляется комплексная проверка следующих умений и знаний, которые формируют общие и профессиональные компетенции:

знания:

- лексический (1200 - 1400 лексических единиц) и грамматический минимум, необходимый для чтения и перевода (со словарем) иностранных текстов профессиональной направленности.

умения:

-общаться (устно и письменно) на иностранном языке на профессиональные и повседневные темы;

-переводить (со словарем) иностранные тексты профессиональной направленности;

- самостоятельно совершенствовать устную и письменную речь, пополнять словарный запас;

III. Формы и методы оценивания

Контроль и оценка знаний, умений, а также сформированность общих и профессиональных компетенций осуществляются с использованием следующих форм и методов: проведения тестирования, выполнения лексико-грамматических заданий, работы с профессионально ориентированными текстами.

Оценка освоения дисциплины предусматривает использование накопительной системы оценивания при промежуточной аттестации и дифференцированном зачете.

IV. Контрольно-оценочные средства для текущего контроля

Раздел 1. Страны изучаемого языка

Тест №1

Вариант 1

Задание №1:

1. Ann never ... to work by bus.

- a) go b) does go c) goes

2. Mary ... a lot last year.

- a) travels b) did travel c) travelled

3. She ... French at all.

- a) not speaks b) doesn't speak c) doesn't speaking

4. This book ... five years ago.

- a) write b) wrote c) was written

5. We ... this work tomorrow.

- a) did b) will do c) done

Задание №2:

1. I think the article ... tomorrow in the evening.

- a) will translate b) will be translated c) will translated
2. The city ... on the banks of the river.
- a) is situated b) situated c) are situated
3. About 5 000 new houses ... last year.
- a) were built b) are built c) built
4. He ... to the theatre next month.
- a) goes b) will go c) went
5. Soldiers ... obey their commander's orders.
- a) can b) must c) may

Вариант 2

Задание №1:

1. Soldiers ... obey their commander's orders.
- a) can b) must c) may
2. ... I come in?
- a) can b) must c) may
3. I'm afraid you ... everything once again.
- a) must do b) have to do c) can do
4. ... you speak English?
- a) may b) must c) can
5. It was 10 o'clock. I ... leave.
- a) must b) have to c) had to

Задание №2:

1. ... I come in?
- a) can b) must c) may
2. I'm afraid you ... everything once again.
- a) must do b) have to do c) can do
3. ... you speak English?
- a) may b) must c) can
4. It was 10 o'clock. I ... leave.

- a) must b) have to c) had to
5. When I was a boy I ... play football.
a) can b) must c) could

Тест № 2

Вариант 1

Задания:

Выберите правильный вариант.

1. The Australian continent is washed in the north by
a) the Arafura Sea b) the Irish Sea c) the North Sea
2. The land varies from high mountains to deep canyons in
a) Australia b) the USA c) the UK
3. The USA stretches from ... in the north to ... in the south.
a) Canada ... Mexico b) Mexico ... Canada c) Brazil ... Cuba
4. ... is the highest mountain in England and Wales.
a) Snowdon b) Elbrus c) Everest
5. No place in ... is more than 75 miles from the sea.
a) Great Britain b) the USA c) Australia

Вариант 2

Задания:

Выберите правильный вариант.

1. The centre of the Australian continent is taken by
a) the mountain ranges b) the deserts c) the plains
2. The chief rivers of Great Britain are ...,
a) the Avon, the Thames b) the Missouri, the Yukon c) the Murray, the Darling
3. ... is located to the south of Asia, between the Pacific and Indian oceans.
a) The USA b) Great Britain c) Australia
4. The southern parts of ... have warm temperatures year round, but the northern parts have very cold winters.
a) Australia b) the UK c) the USA
5. ... is typical of the UK.
a) steady rainfall b) severe drought c) cold winter

Тест № 3

Вариант 1

Задание:

I. Прочитайте вопросы 1-4 и тексты, обозначенные буквами А-Е. Установите, в каких текстах можно найти ответ на эти вопросы. Ответ на каждый вопрос можно найти только в одном тексте. Запишите свои ответы в таблицу, приведенную ниже, где под номером вопроса впишите соответствующую букву. В задании один текст лишний.

Where can tourists....

1. learn more about extreme sports?
2. see a country which is as large as America?
3. enjoy the most splendid view of the Niagara Falls?
4. have lunch at a sand dune?

A. Canada has an area of nearly ten million square kilometers. It is a country of lakes. Since the building of the St. Lawrence Seaway the Great Lakes and the St. Lawrence River form a great water way from the Atlantic to the heart of the country. The Niagara Falls on the Niagara River between Lake Erie and Lake Ontario are one of the most splendid sights in the world.

B. New Zealand is famous for its geysers, thermal springs, its national past time rugby and extreme sports. It is a mountainous country. Most of North Island and the south-west of South island have good forests of evergreen trees and large areas are rich grasslands. Tourists are offered such extreme amusements as tramping through virgin forest, rafting on rushing mountain rivers, jumping from helicopters and bridges into precipices and water.

C. Australia is massive and very sparsely peopled: in size it rivals the USA, yet its population is just over eighteen million. This is an ancient land, and often looks it. In contrast, its cities – most of which were founded as recently as the mid nineteenth century – express a youthful energy.

D. Indian people are very friendly and hospitable. I continued to travel in India at a snail's pace. The longer we were out in the desert, the more beautiful it grew, so peaceful and romantic as the land shifted from scrub bush to sand dunes to rocky hills and back to sand dunes. Each day we could stop at a new sand dune for lunch.

E. Dubai (a land of sunrise) was once a part of a large desert. But now it is a green island of everlasting summer, a centre of world entertainment, and a civilized city in the United Arab Emirates. There are wonderful buildings of glass, skyscrapers, peaceful fountains in the middle of flower gardens, and meadows with colorful plants.

1	2	3	4

Вариант 2

Задание: Match the names of the famous British people (a-f) with the sentences (1-5).

1	All the British admire that man. He was a brave and skillful admiral. He won the battle of Trafalgar.	a	Sir Isaac Newton
2	The British called her “the Queen of people’s hearts”. She was well-known for her charity; she helped people with dangerous diseases. At the age of 20 she married Prince Charles and they had two sons.	b	Horatio Nelson
3	His name is well known all over the world. He acted at the London theatre called “The Globe” and wrote tragedies, historical plays, comedies and poetry. His plays are still popular – not only in England but in the whole world.	c	Daniel Defoe
4	He is one of the greatest men in the history of science. He was born in a small village in England in 1642, studied mathematics and physics at Cambridge University. He discovered the universal law of gravitation.	d	William Shakespeare
5	He was a famous English writer of the eighteenth century. He wrote his famous book when he was nearly 60 years old. His book was based on the real adventures of a sailor, who had lived alone for four years on a desert island. For this book he was called “the father of English prose”.	e	Princess Diana

Тест № 4

Вариант 1

Задание №1:

Выберите правильный вариант.

1. The Australian continent is washed in the north by
 a) the Arafura Sea b) the Irish Sea c) the North Sea

2. The land varies from high mountains to deep canyons in
 a) Australia b) the USA c) the UK
3. The USA stretches from ... in the north to ... in the south.
 a) Canada ... Mexico b) Mexico ... Canada c) Brazil ... Cuba
4. ... is the highest mountain in England and Wales.
 a) Snowdon b) Elbrus c) Everest
5. No place in ... is more than 75 miles from the sea.
 a) Great Britain b) the USA c) Australia

Задание №2: Прочитайте информацию о студентах, только что приехавших в летнюю школу. Подберите правильный заголовок для каждой части текста из предложенных вариантов:

- | | | | | | | |
|------------|---------|---------|----|------------|------|-------------|
| A. Eating | | | | | | traditions |
| B. A treat | | and | | a song | | go together |
| C. A | popular | way | of | getting | many | presents |
| D. Holiday | | | | decoration | | business |
| E. Holiday | | | | food | | business |
| F. Cooking | | special | | holiday | | dishes |

1. Many stores in the USA stock a large range of holiday house decorations for a month before the holiday itself. For instance, on Thanksgiving Day they sell pumpkins and leaves specially designed for adorning. As for Halloween, stores offer flashlights, masks, and skeletons for decorating the gardens and for scaring one's guests. Thus, people alter the attire of their houses several times a year. The wealthier families change not only the season's outside decorations but even the interior of their houses such as curtains, carpets and pictures.

2. On the Eve of Thanksgiving Day, most supermarkets are flooded with turkeys selling at lower prices. Turkey producers have to decrease their price because they must sell all the turkeys as soon as possible, otherwise they will still have them when Christmas comes or even longer. Almost nobody buys turkey for an ordinary meal (during the rest of the year). At Christmas, Americans also cook a turkey or they can choose another traditional dish, e.g. roasted ham.

Вариант 2

Задание №1:

Выберите правильный вариант.

1. The centre of the Australian continent is taken by
a) the mountain ranges b) the deserts c) the plains
2. The chief rivers of Great Britain are ...,
a) the Avon, the Thames b) the Missouri, the Yukon c) the Murray, the Darling
3. ... is located to the south of Asia, between the Pacific and Indian oceans.
a) The USA b) Great Britain c) Australia
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a) Australia b) the UK c) the USA
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A. Eating						traditions
B. A treat		and		a song		go together
C. A	popular	way	of	getting	many	presents
D. Holiday			decoration			business
E. Holiday			food			business
F. Cooking		special		holiday		dishes

1. One of the peculiarities of Americans is that they do not usually sit around the table for a holiday meal. For larger groups, all the food usually stands on a special, separate table that is beautifully decorated. Everyone can serve themselves with the food they want. What is more, they do not usually have salads, which may seem rather strange for the Russians living there. Salads, to Americans, may be nothing more than tossed leaves of lettuce with a few other vegetables.

2. One more type of celebration, which is connected with presents, are «showers», for instance a baby-shower or a wedding-shower. For a baby-shower, a pregnant woman is given presents for her future child, whereas for a wedding-shower a bride receives presents for her household. These showers are popular because on the one hand, it is usually a moderate price to rent a cafe or a restaurant and order some kind of snacks such as crisps and sauces and salads. On the other hand, it is very pleasant to be «showered» with presents. Many people are usually invited to such parties.

Раздел 2. Известные люди культуры и науки.

Раздел 3. Я и мир, в котором я живу.

Вариант 1

Задание:

Read the texts about famous Russian people. Match the texts with the names of these famous people.

1	He was a well-known Soviet and Russian actor and clown who acted in many popular films. He worked in a circus in Moscow and now this circus has his name. Children and grown-ups like to visit it.	a. Valentina Tereshkova
2	She is a Russian professional tennis player. She is an Olympic medalist, who won silver for Russia in women's competition at the 2012 Summer Olympics in London.	b. Peter the Great
3	She is a Russian cosmonaut. She was the first woman in the world to fly in a space rocket. She flew in spaceship Vostok 6 on 16 June 1963.	c. Dmitry Bilan
4	He was a Russian czar at the end of 17th century. He is best known for his big reforms and made Russia a great nation. He went to Europe where he met many talented people and learnt a lot of jobs. He built ships and created Russian fleet. He founded St. Petersburg.	d. Yury Nikulin
5	He was a Russian scientist and inventor. He discovered and formulated the Periodic Law and made the Periodic Table of Elements. An interesting fact about him is that he saw this system in his dream, when he was sleeping.	e. Maria Sharapova
6	He is a Russian actor, singer and a songwriter. He represented Russia at the Eurovision Song Contest 2006 with the song "Never Let You Go". He won the second place. In 2008, he won the contest in in Belgrade with the song "Believe".	f. Mikhail Lomonosov

Вариант 2

Задание:

Ecological Problems

Ecology is a science which studies the relationship between all forms of life on our planet and the environment.

Since ancient times Nature has served Man, giving him everything he needs: air to breathe, food to eat, water to drink, wood for building and fuel for heating his home. For thousands of years people lived in harmony with the environment and it seemed to them that the resources of Nature had no end or limit.

With the industrial revolution our negative influence on Nature began to increase. Large cities with thousands of polluting plants and factories can be found

nowadays all over the world. They pollute the air we breathe, the water we drink, the fields where our crops are grown. Big cities suffer from smog. Cars with their engines have become the main source of polluting in industrial countries.

Vast forests are cut down everywhere for the needs of industries. As a result many kinds of animals, birds, fish and plants are disappearing nowadays.

The pollution of the air and the world's oceans and the thinning the ozone layer are the other problems arising from men's careless attitude to ecology.

Active measures should be taken to save the life on our planet. There is an international organization called **Greenpeace** which is doing much to preserve the environment.

Questions to the text on ecological problems:

1. Why are the wild animals in danger?
2. What climatic changes are the most threatening?
3. Is there any way to make our air cleaner
4. What is Green Peace?
5. What are the main ecological problems?

Раздел 4. Спорт и здоровый образ жизни.

Вариант 1

Задание:

Swimming

Read the text. Complete the passages using the words: racing, until, goggles (очки), almost, as long as, safety, splash, besides, ear plugs (беруши), prevent.

Most Americans can swim, and 1 _____ everyone likes at least to 2 _____ around in the waves on a hot day at the beach. Knowing how to swim is important for 3 _____ but when you do it seriously, swimming is also one of the best exercises for your body.

4 _____ water and swimsuit you don't need much. 5 _____ keep irritating chlorinated water out of your eyes and let you watch where you're going, A swimming cap makes you more streamlined for 6 _____ and keeps your hair out of your face.

7 _____ keep the water out and 8 _____ ear infections.

To get in shape, start by swimming twenty minutes three times a week. Add ten minutes 9 _____ you're swimming for an hour each time. Vary your strokes to work different muscles. It's okay to take short breaks, 10 _____ your heart rate stays up.

Вариант 2

Задание: *Read the text. Answer the questions.*

Sports and healthy lifestyle

Sport plays an important role in the life of teenagers. Those people who go in for sports, lead a healthy lifestyle, follow a diet and control their weight tend to be more cheerful and are less susceptible to diseases. On the other hand, those people who don't participate in any physical activity and prefer junk food tend to be subjected to obesity and are at risk of heart and vascular diseases. As a matter of fact, the problem of obesity is one of the most pressing in the modern world. Today more and more teenagers are becoming overweight. One solution that can be put forward is doing sports, which can help teens not only to lose excessive weight and to stay fit, but also to feel more vigorous and spirited throughout the day. Physical exercises are also the perfect way for emotional release. To improve school performance it is essential for school children to balance mental stimulation and physical activity. Besides, it is necessary to mention that supporters of healthy life style are also at much less risk of getting involved in drinking alcohol, taking drugs and other bad habits than those who are addicted to computer games, instead. In addition, sports develop the will for victory, as well as caseharden the constitution and the spirit. Sports also create opportunities to find congenial souls with common interests and values. That feeling that you are a part of the team can help to develop your leadership skills and to boost your self-esteem.

The most popular team sports for teenagers are football, volleyball, basketball and tennis. However, some youngsters prefer winter sports, such as figure-skating, ice-hockey and skiing, while others are fond of summer sports, including diving, swimming, yachting and rafting.

As far as I am concerned, I do like sports. I usually wake up at 7 a.m. and go for a run or do my morning exercises indoors. Twice a week I take my fitness classes and go to the swimming pool. I am also fond of yoga which teaches me how to take care of my body properly and how to stay healthy, flexible and strong. In summer I like to play badminton and volleyball with my friends, while in winter I go to the skating rink. As for dieting, I am a follower of separate nutrition. When you eat separately you can eat almost anything but not at the same time. For instance, for breakfast I prefer a plate of oatmeal, a glass of orange juice and two apples. As is known, "an apple a day keeps a doctor away". For dinner I can eat fresh vegetables and some steamed fish. Besides, I prefer mineral water and fresh juices to fizzy drinks. In conclusion, a healthy person doesn't smoke, eats healthy food and prefer doing sports to watching them.

Vocabulary:

- 1) to go in for sports — заниматься спортом
- 2) to lead a healthy lifestyle — вести здоровый образ жизни
- 3) to follow a diet — соблюдать диету
- 4) physical activity — физическая деятельность
- 5) to take part (in) / to participate in — принимать участие (в чем-либо)
- 6) junk food — нездоровая пища, фаст-фуд
- 7) to lose weight — худеть, сбрасывать вес
- 8) to keep fit — оставаться в хорошей физической форме
- 9) susceptible to diseases — восприимчивый к болезням
- 10) heart and vascular diseases — сердечно-сосудистые заболевания
- 11) obesity — тучность, ожирение
- 12) overweight people — люди с избыточным весом
- 13) vigorous — сильный, энергичный
- 14) spirited — живой, оживлённый, энергичный
- 15) emotional release — эмоциональная разгрузка
- 16) bad habit — дурная привычка
- 17) to caseharden the constitution — закалять тело
- 18) skating rink — каток
- 19) will for victory — воля к победе
- 20) to caseharden the spirit — закалять дух
- 21) congenial soul — близкий по духу человек
- 22) to boost self-esteem — повышать самооценку
- 23) to go for a run — выходить на пробежку
- 24) to do morning exercises — делать утреннюю зарядку
- 25) yachting (sport) — парусный спорт
- 26) separate nutrition — раздельное питание
- 27) steamed fish — рыба на пару
- 28) oatmeal — овсяная каша
- 29) fizzy drink — газированный напиток
- 30) flexible — гибкий.

Answer these questions.

1. What role does sport play in the life of teenagers?
2. Those people who go in for sports, lead a healthy lifestyle, don't they?
3. What problem is one of the pressing in the modern world?
4. How can one solve this problem?
5. What role do physical exercises play for emotional release?
6. What should students do to improve school performance?
7. What bad habits are there in the text?

8. What are the most popular sports for teenagers and youth?
9. What lifestyle do you lead?
10. What person is called a healthy person?

Раздел 5. Обычай и традиции.

Вариант 1

Задание:

Read the text and say if the sentences below are true (T) or false (F):

Easter

As soon as 2 January arrives, shops remove the Christmas product lines from their shelves and the Christmas decorations from their windows. What fills the empty spaces? Chocolate Easter eggs, Easter bunnies and Easter chicks, despite the fact that Easter itself doesn't come along until a few months later. Easter also means we have public holidays, Good Friday and Easter Monday, it's the longest public holiday after Christmas and people sometimes take the opportunity to take a short break away from work by extending their leave. Cheryl from Liverpool said, 'I use the Easter break to visit relatives and socialise with friends, the chocolate giving and receiving is a good bonus!'

Easter celebrates the resurrection of Christ. In the European pre-Christian tradition, it celebrates the return of nature and greenery after the cold, snowy winter. The Easter chick symbolises new life, the rabbit represents fertility and the egg symbolises both. That is why painted eggs or chocolate eggs are given as gifts at Easter.

Are these sentences T or F?

- 1) Soon after Christmas the shelves of all the shops become empty.
- 2) Chocolate Easter eggs, Easter bunnies and Easter chicks can be bought long before the Easter coming.
- 3) Easter is the longest public holiday after Christmas.
- 4) Easter celebrates the return to pre-Christian traditions.
- 5) Easter eggs symbolize return of nature.

Вариант 2

Задание: *Read the text and fill in the gaps:*

Christmas in Different Parts of the United Kingdom

In the north of England up to the middle of the 20th century, it (1) _____ common to find a dish of "Mugga" on the Christmas Eve table. This (2) _____ a kind of wheat porridge, sweetened with honey, which (3) _____ before the main meal, and also throughout Advent, which is the month leading up

to Christmas. It (4) _____ a remnant left over from Viking times. But it (5) _____ up in similar forms all over Europe. In Poland for example they (6) _____ “Kuia” which is a cereal dish made from wheat, fermented overnight in milk, sweetened with honey and spiced. In Scotland they (7) _____ “Athol Brose” which is made from oats. It also has whisky in it and (8) _____ as a drink!

1. A. is B. are C. was D. had been
2. A. is B. are C. was D. had been
3. A. ate B. eat C. eats D. was eaten
4. A. has been B. was C. is D. are
5. A. turned B. was turned C. turn D. turns
6. A. has B. have C. had D. have had
7. A. have B. has C. had D. have had
8. A. is served B. was served C. serves D. served

Раздел 6. Горное образование в России и за рубежом

Вариант 1

Задания:

1. Read the text and answer the questions:

The First Mining School in Russia

Working vocabulary:

Prospecting- разведка

to introduce -вводить, привносить

prominent- выдающийся

colliery -каменноугольная копь

open-cast mines- шахты с открытым способом добычи

to cope- справиться

to call for -требовать

establishment -основание, учреждение

concentration plant -обогажительная фабрика

processing -обработка

department- факультет

scientific research Institute of Mining - научно-исследовательский горный институт

Moscow Mining Academy was established¹ in 1918. The main task of the Academy was to train mining engineers and technicians, to popularize technological achievements among miners, to work on important problems of mining and metallurgical engineering and to direct scientific research. There were three departments in the Academy: mining, geological prospecting and metallurgy.

The Moscow Mining Academy introduced a new course in coal mining mechanization which provided the basis for the development of mining engineering. The two scientists A.M. Terpigorev and M.M. Protodyakonov wrote the first textbook on machinery for mining bedded deposits. Much credit for the establishment of the Moscow Mining academy and the development of cooperation among outstanding scientists-and educators is due to Academician I.M.Gubkin, a prominent geologist and oil expert. In 1925 the Moscow Mining Academy was one of the best-known educational institutions in Russia. It had well-equipped laboratories, demonstration rooms and a library which had many volumes of Russian and foreign scientific books and journals. The Academy established close contacts with the coal and ore mining industries. The scientists carried out scientific research and worked on important mining problems. The rapid growth of the mining industry called for the training of more highly qualified specialists and the establishment of new educational institutions. New collieries and open-cast mines, concentration plants, metallurgical works and metal-working factories for processing non-ferrous and ferrous metals appeared in the country. The people took an active part in the construction of new industrial enterprises. The Academy alone could not cope with the problem of training specialists. In 1930 the Moscow Mining Academy was transformed³ into six independent institutes. Among the new colleges which grew out of the Academy's departments was the Moscow mining Institute and the Moscow Institute of Geological Prospecting. Later, the scientific research Institute of Mining appeared near Moscow.

Notes:

- 1. was established – была основана,
- 2. much credit... is due to – большая заслуга ... принадлежит
- 3. was transformed – была преобразована

2. Answer the questions:

- 1. What was the main task of the Academy?
- 2. What new course did the academy introduce?
- 3. Were there three or four departments at the academy?
- 4. What industries did the Academy establish contacts with?
- 5. Who wrote the first textbook on machinery for mining bedded deposits?
- 6. Why was the Academy transformed?

3. Find the equivalents of the following word combinations:

1. mining equipment	а) обогатительная фабрика
2. to carry out research	б) подготовка горных инженеров
3. new course in	в) разведка нефти
4. to direct scientific activity	г) обработка цветных металлов
5. to take an active part	д) техническое образование
6. prospecting for oil	е) новый учебный курс (по)
7. bedded deposit	ж) принимать активное участие
8. concentration plant	з) проводить исследование
9. technical education	и) направлять научную деятельность

10. the training of mining engineers	к) горное оборудование
11. processing of non-ferrous metals	л) пластовые месторождения

Вариант 2

Задания:

1. Read the text and answer the questions:

Mining Education in Great Britain

In Great Britain the students get mining education at special colleges and at mining departments of universities.

For example, the Mining Department at the University of Nottingham ranks as one of the foremost teaching and research mining schools in Great Britain. The students come to the University from all parts of the country and from abroad. The close proximity of Nottingham to mines extracting coal and different metals makes it possible for the University to keep in close touch with new achievements in mining.

The aim of training at the University is to give the student an understanding of applied science based on lectures, tutorial system,¹ laboratory work and design classes. The laboratory work trains the student in accurate recording of observations, drawing of logical conclusions and presentation of scientific reports. Besides, it gives the student an understanding of experimental methods and familiarizes him (or her) with the characteristics of engineering materials, equipment and machines.

At Nottingham there are two types of laboratories, general and Specialized. General laboratories deal with the fundamentals of engineering science and specialized ones¹ study the more specialized problems in different branches of engineering.

During the final two years of his course the student gets a comprehensive training in surveying. Practical work both in the field and in drawing classes forms an important part of this course. Besides, the students have practical work in survey camps during two weeks. The equipment available for carrying out traversing, levelling, tacheometric and astronomical surveying is of the latest design.

The practical and laboratory work throughout the three or four years of study forms a very important part of the course, so the students obtain the required standard in their laboratory course work before they graduate.

British educational system is fee-paying. The annual fee includes registration, tuition, examination, graduation and, in the case of full-time students, membership of the Union of Students.

Students from all over the world (nearly 100 countries) study at the University of Nottingham. For many years the University has had a thriving community of international students.

The University pays much attention to learning foreign languages. For individual study there is a 16-place self-access tape library⁴ with a tape archive of 3,000 tapes in 30 languages. There are also 16 video work stations where the students play

back video tapes or watch TV broadcasts in a variety of languages.

2. Answer the questions:

1. Where do the students get mining education in Great Britain ?
2. What makes it possible for the University of Nottingham to keep in close touch with new achievements in mining?
3. What do General laboratories deal with?
4. What do students get during the final two years of their course?
5. Students from all over the world study at the University of Nottingham? Don't they?

Раздел 7. Земная кора и полезные минералы.

Раздел 8. Горнодобывающая промышленность

Раздел 9. Методы горнодобывающей промышленности

Раздел 10. Горное дело и экология:

Задание № 1

Вариант 1

Задания:

1. Read these words:

value – ценность	to subject – подвергать воздействию, влиянию
fuel – топливный	to distil – перегонять, подвергать
heating quality of coal – свойство угля выделять тепло	ammonical liquid – аммиачная жидкость
hence – отсюда, следовательно	leaving behind – за исключением
to smelt – плавить	volatile hydrocarbons – летучие углеводороды
to warm – согреть	carbon monoxide – окись углерода
heat – нагревать, тепло	to obtain – получать, достигать
essential part – значительная часть	to predict – предугадать, спрогнозировать
to surround – окружать	immense – огромный
to extract – извлекать	consumption – потребление, расход
treatment – обработка, обогащение	to yield – добывать, вырабатывать, добыча
coke - кокс	tar – смола

2. Read the text and answer the questions:

WHAT IS COAL?

What is coal? When did man learn about its value as a fuel?

If nowadays scientists can fully answer the first question, nobody can answer the second one. We cannot say at what stage of civilization man realized the

heating quality of coal.

We do not know how many years coal serves man. We know, however, that coal forms the basis upon which the majority of human industries and hence human health, wealth and happiness.

Coal moves thousands of mighty vessels through the seas and oceans, and a hundred thousand locomotives over the iron ways of the world. Coal smelts the millions of tons of iron ore from which we make all our machinery. Coal provides the power for our factories, lights our streets and houses, warms us with its stored heat. But we need not extend the list. Coal becomes an essential part of our everyday life and surrounds us in the shape of thousands of different things.

Coal is one of the greatest sources of materials in the world, a wonderful reservoir of valuable chemicals. Which of them do we extract and in what form do we use them? This is rather a matter of choice. A ton of coal may yield large quantities of chemicals and materials, or it can give a little heat, some gas and a little tar. It depends upon the treatment to which we subject coal.

The usual treatment of coal is to distil it at a high temperature, which drives off gas, tar, and ammonical liquid, leaving behind coke. Coal-gas is a mixture of volatile hydrocarbons with some other gases such as carbon monoxide. It forms a good, convenient method of lighting and heating but it results in the wastes of the hydrocarbons. The chief use of coal-gas today is that of heating.

Today besides heating calories we obtain hundreds of the most precious products which have nothing in common with a little black piece of coal. What else can scientists obtain from this "black gold" in their laboratories?

Can we predict it? "Black gold"!

May we consider this a very bold comparison? People willingly pay gold for this stone in which, as we know, the energy of the sun accumulated millions of years and which is now a store of immense power in the service of man.

If we look at all the products which we obtain from coal, we realize that under no conditions can gold supply us with even a thousandth of what we get from coal.

That is why when people speak of coal as "black gold" they only belittle its importance. We may even put such questions as: Is there anything more precious for man than coal? Do we know enough about the wonderful properties of coal? Do we devote sufficient attention to its mining and consumption?

"The Sun Stone" so the Russian writers name coal. That is true. Sun is the source of life on our planet. The sun warms and feeds us. We must not be wasteful of our "store" of sun power – this greatest gift of nature.

3. Answer the questions:.

1. What does coal provide?
2. What is coal ?
3. What can yield a ton of coal?

Вариант 2

Задания:

1. Read the text and answer the text:

Working vocabulary:

decay- гниение, распад, разложение
weathering –выветривание
beds- пласт, слой, залежание
stratum pl (strata)- пласт, напластование, формация
irregularity- неровность, беспорядочность
uniformity –единообразие
bands –полоса
bench -терраса, уступ
shale- сланцевая глина, глинистый сланец
pyrites-серный колчедан, пирит
partings- прослойки
folding -складка
faulting -разлом
bituminous -битумный
anthracite -антрацит
to subdivide- подразделять (ся)
lignite -лигнит, бурый уголь
lithium -литий
chromium –хром
tungsten -вольфрам
coke- кокс
conversion –переработка
liquefaction -разжижение, сжижение

Coal and Its Classification

Coal is the product of vegetable matter that has been formed by the action of decay, weathering, and the effects of pressure, temperature and time millions of years ago. Although coal is not a true mineral, its formation processes are similar to those of sedimentary rocks. Structurally coal beds are geological strata characterized by the same irregularities in thickness, uniformity and continuity as other strata of sedimentary origin. Coal beds may consist of essentially uniform continuous strata or like other sedimentary deposits may be made up of different bands or benches of varying thickness. The benches may be separated by thin layers of clay, shale, pyrites or other mineral matter, commonly called partings. Like other sedimentary rocks coal beds may be structurally disturbed by folding and faulting. According to the amount of carbon coals are classified into: brown coals, bituminous coals and anthracite. Brown coals are in their turn subdivided into lignite and common brown coal. Although carbon is the most important element in coal, as many as 72 elements have been found in some coal deposits, including lithium, chromium, cobalt, nickel, tungsten and others. Coal is still of great importance for the development of modern industry. It may be used for domestic and industrial purposes. Being the main source of coke, coal is widely

used in the iron and steel industry. Lignite, for example either in the raw state or in briquettes, is a source of industrial carbon and industrial gases. There is a strong tendency now for increased research into new technologies to utilize coal. No doubt, coal will be used as a raw material for the chemical industry and petrochemical processes. All these processes involve coal conversion which includes gasification designed to produce synthetic gas from coal as the basis for hydrogen manufacture, liquid fraction for making liquid fuel from coal and other processes.

2. Answer the questions:

1. What kind of product is coal?
2. May coal beds consist of essentially uniform continuous strata?
3. What are coals classified into?
4. Brown coals are in their turn subdivided into lignite and common brown coal, aren't they?
5. For what purposes may coal be used?
6. Will coal be used as a raw material for the chemical industry and petrochemical processes?
7. What does coal conversion include?

3. Find the equivalents of the following words:

1. in its turn	а) смешиваться с другими углями
2. amount of carbon	б) быстро выветриваться
3. of improved quality	в) свою очередь
4. the most abundant variety of coal	г) содержание углерода
5. to smelt iron ore	д) высокосортный уголь
6. high-rank coal	е) широко распространенные угли
7. to weather rapidly	ж) улучшенного качества
8. to blend with other coals	з) теплотворная способность
9. heat value	е) плавить железную руду

Задание № 2

Вариант 1

Задания:

1. Read the text and answer the questions.

Coal Mining Industry in Russia

Our Land is rich in coal. People own the riches of their land and miners work for the good of the whole people. Coal miners produce much coal both to the export and to the import. But economy in our country needs still more coal for its mills,

factories and railway transport. In order to produce more high-grade coal the miners apply various progressive methods of coal mining. The miners' labour methods are productive. The coal miners work with the aid of coal cutters and coal combines. Coal cutters and cutter-loaders (combines) play a very important role in mining. They do the hard work in our mines. They make man's labour easier. The Federal and local Government display great concern for the development of the coal mining industry and for the safety of coal miners' labour. For this purpose the most famous mining engineers invent various types of devices. Face workers, coal combine operators and timber men take part in the inventors' work. They help them to develop various engines, motors, coal cutters, combines, loaders, and different types of timber and metal support. The inventors develop mighty fans for intake and return airways. In order to make the miners' labour safer, they develop various progressive methods of strata and roof control. Thus, miner's work in Russia grows safer and easier every year.

2. Answer the questions:

1. Is our country rich in coal?
2. What makes man's labour easier?
3. Are the miners' labour methods productive?
4. What types of support do the miners use?
5. Do the combines do the hard work in our mines?
6. Who invents various types of devices?
7. What do the inventors develop?
8. Who helps the inventors to develop various engines, motors, combines and loaders?
9. Do these devices play an important role in mining?

Вариант 2

Задания:

1. Read the text and answer the questions:

COAL-MINING IN ENGLAND

Hard coals are mined almost everywhere. Seams are often interbedded with dirt bands. Coal is mined from considerable depth, roof being moderate, very variable. Roof varies—good, bad and indifferent. Gas is prevalent in majority of seams, but varies considerably. There are very few naked-Hght pits. Liability to spontaneous combustion is prevalent in thick seams. Pumping demands are heavy in many districts.

Under such conditions longwall methods of working are the most suitable. In many cases longwall is the only practicable method as, for example, in thick seams liable to spontaneous combustion, in seams lying at considerable depth and in the thinner seams. The object of British mining engineers has always been to conserve their

national coal resources by aiming at a maximum recovery, and longwall working has contributed to this end; about 90 per cent extraction is attained in England.

2. Answer the questions:

1. What is the difference between American and British mining conditions?
2. What is the nature of seams in the US?
3. What is the nature of seams in England?

V. Контрольно-оценочные средства для промежуточной аттестации

Вариант 1

Задания:

1. Read the text and answer the questions:

MINING INDUSTRY ABROAD

extract ['ekstrækt] - добывать, извлекать; вынимать (*уголь, руду*);

generation – производство

extraction - выемка, извлечение; очистные работы;

extractive - добывающий, извлекающий

obtain - получать; достигать; добывать;

Among the foreign countries with a highly-developed economy are the USA, Japan, Great Britain, Canada, France, Italy and some other West European countries.

The United States of America is a country with large energy resources. The territory of the USA is rich in coal, natural gas, iron ores, large reserves of petroleum, uranium and other ferrous and non-ferrous metals. The country develops different branches of industry. Among them are mining, iron and steel, machine building, military and others. The coal industry plays an important part in the country's economy, its raw material base. The future of coal depends very much upon its use in electricity generation and in other fields. Most of the total annual coal production comes from the coal-fields in Pennsylvania and the northern part of West Virginia, Illinois and Kentucky and southern West Virginia. The USA mines larger portion of coal, iron ore and other ferrous and non-ferrous metals by the open-cast method.

2 Answer the questions.

1. What minerals is the USA rich in?
2. What branches of industry does the country develop?
3. Where does most of the total annual coal production come from?
4. What method does the USA use for mining?

5. What foreign countries with a highly-developed economy do you know?

Вариант 2

Задания:

1. Read the text and answer the questions.

MINING INDUSTRY-1

Mining refers to actual ore extraction. Broadly speaking, mining is the industrial process of removing a mineral-bearing substance from the place of its natural occurrence in the Earth's crust. The term "mining" includes the recovery of oil and gas from wells; metal, non-metallic minerals, coal, peat, and other hydrocarbons from the earth. In other words, the work done to extract mineral, or to prepare for its extraction is called mining.

The tendency in mining has been toward the increased use of mining machinery so that modern mines are characterized by tremendous capacities. This has contributed to improving working conditions and raising labour productivity.

Mining can be done either as a surface operation or it can be done by an underground method. The problem of depth also affects the mining method.

Working the deposit means the extraction of mineral. With this point in view a number of underground workings is driven in barren (waste) rock and in mineral. Mine workings vary in shape, location and function.

2. Answer the questions

1. What is mining?
2. What has contributed to the better working conditions of the miners?
3. What factors influence the choice of the mining method?
4. What does working the deposit mean?
5. How do mine workings vary?

Вариант 3

Задания:

1. Read the text and answer the questions.

MINING INDUSTRY-2

Among the key sectors of the national economy special attention is paid to fuel and energy resources. Russia is rich in large and often unique deposits of mineral resources such as coal, oil, gas, ferrous and non-ferrous metals. In fact, the country depends on its own fuel and energy resources to develop its national economy.

The objective of new economic development plans is to ensure the growth of the country's energy potential mainly on the basis of nuclear power and coal. Coal

continues to play an important part in supplying the country with fuel and electric power, especially in the eastern areas where there are large fuel and energy complexes.

New economic development plans provide for the extensive development of the extractive industries in the eastern regions of the country. Large mining enterprises are constructed in Eastern Siberia and the Far East. At the same time the retooling and modernization of the collieries in the old coal-mining areas and firstly in Kuznetsk basins continue.

2. Answer the questions

1. What are the key sectors of the national economy?
2. What is Russia rich in?
3. What plays an important part in supplying the country with fuel and electric power?
4. What do new economic development plans provide?

Приложение 1. Ключи к контрольно-оценочным средствам для текущего контроля

Раздел 1. Страны изучаемого языка

Тест №1

Вариант №1

Задание №1

Ключ к заданиям

1	С
2	С
3	В
4	С
5	В

Задание №2

Ключ к заданиям

Вариант №2
 Задание №1
 Ключ к заданиям
 заданиям

1	B
2	C
3	A
4	C
5	C

1	B
2	A
3	A
4	B
5	B

Задание № 2
 Ключ к

1	C
2	A
3	C
4	C
5	C

Тест №2
 Вариант №1
 Задание
 Ключ к заданиям

1	2	3	4	5
a	b	a	a	a

Вариант №2
 Задание

Ключ к заданиям

1	2	3	4	5
b	a	c	c	a

Тест №3

Вариант №1
 Задание
 Ключ к заданиям

1	2	3	4
A	B	D	C

Вариант №2
 Задание
 Ключ к заданиям

1	2	3	4	5
b	e	d	a	c

Тест № 4
 Вариант №1
 Задание № 1

Задание №2

1	2
---	---

**Ключ к заданиям
заданиям**

D	E
---	---

Ключ к

1	2	3	4	5
a	b	a	a	a

Вариант №2

Задание №1

Ключ к заданиям

Задание №2

Ключ к заданиям

1	2	3	4	5
b	a	c	c	a

1	2
A	C

Раздел 2. Известные люди культуры и науки

Вариант 1

Задание:

Ключ к заданиям

1	2	3	4	5	6
d	e	a	b	f	c

Вариант 2

Задание:

Ключ к заданиям

1. They are in danger because vast forests are cut down everywhere for the need of industries.
2. The pollution of the air and the world's oceans and the thinning the ozone layer are the most threatening.
3. Yes, there are some.
4. Greenpeace is an International organization.
5. The main ecological problems are the pollution of air, water, disappearing animals etc.

Раздел 4. Спорт и здоровый образ жизни

Вариант 1

Задание

Ключ к заданиям

1	2	3	4	5	6	7	8	9	10
almost	splash	safety	besides	goggles	racing	ear plugs	prevent	As long as	until

Вариант 2

Задание

Ключ к заданиям

1. Sport plays an important role in the life of teenagers.
2. Yes, they do.
3. The problem of obesity is one of the most pressing in the modern world.
4. One solution that can be put forward is doing sport.
5. Physical exercises are also the perfect way for emotional release.
6. To improve school performance it is essential for school children to balance mental stimulation and physical activity.
7. There are drinking alcohol, taking drugs, and so on.
8. The most popular team sports for teenagers are football, volleyball, basketball and tennis.
9. I lead a healthy lifestyle.
10. A healthy person doesn't smoke, eats healthy food and prefer doing sports to watching them.

Раздел 5. Обычаи и традиции

Вариант 1

Задание

Ключ к заданиям

1	2	3	4	5
T	T	T	F	F

Вариант 2

Задание

Ключ к заданиям

1	2	3	4	5	6	7	8
D	A	D	B	A	B	A	A

Раздел 6. Горное образование в России и за рубежом

ЗАДАНИЕ №1

Вариант 1

Ключ к заданиям:

Первая горная школа в России

2. Ответы на вопросы:

1. The main task of the Academy was to train mining engineers and technicians, to popularize technological achievements among miners, to work on important problems of mining and metallurgical engineering and to direct scientific research.
2. The Moscow Mining Academy introduced a new course in coal mining mechanization which provided the basis for the development of mining engineering.
3. There were three departments in the Academy: mining, geological prospecting and metallurgy.
4. The Academy established close contacts with the coal and ore mining industries.
5. The two scientists A.M. Terpigorev and M.M. Protodyakonov wrote the first textbook on machinery for mining bedded deposits.
6. The Academy alone could not cope with the problem of training specialists.

1	2	3	4	5	6	7	8	9	10	11
к	з	е	и	ж	в	л	а	д	б	г

Раздел 7. Земная кора и полезные минералы.

Раздел 8. Горнодобывающая промышленность

Раздел 9. Методы горнодобывающей промышленности

Раздел 10. Горное дело и экология:

Вариант 1

Ключ к заданиям:

Что такое уголь?

2. Что такое уголь? Когда человек узнал о его ценности как топлива?

Если сегодня ученые могут полностью ответить на первый вопрос, то никто не может ответить и на второй. Мы не можем сказать, на каком этапе развития цивилизации человек осознал тепловое качество угля.

Мы не знаем, сколько лет уголь служит человеку. Мы знаем, однако, что уголь является основой, на которой базируется большинство отраслей человеческой промышленности и, следовательно, здоровье человека, его богатство и счастье.

Уголь перемещает тысячи могучих судов по морям и океанам, а сто тысяч локомотивов-по железным дорогам мира. Уголь плавит миллионы тонн железной руды, из которой мы делаем все наше оборудование. Уголь обеспечивает энергией наши заводы, освещает наши улицы и дома, согревает нас своим накопленным теплом. Но нам не нужно расширять этот список.

Уголь становится неотъемлемой частью нашей повседневной жизни и окружает нас в виде тысяч различных вещей.

Уголь является одним из величайших источников материалов в мире, прекрасным резервуаром ценных химических веществ. Какие из них мы извлекаем и в какой форме используем? Это скорее вопрос выбора. Тонна угля может дать большое количество химических веществ и материалов, или он может дать немного тепла, немного газа и немного смолы. Это зависит от обращения, которому мы подвергаем уголь.

Обычная обработка угля заключается в его перегонке при высокой температуре, которая отгоняет газ, смолу и аммиачную жидкость, оставляя после себя Кокс. Угольный газ представляет собой смесь летучих углеводородов с некоторыми другими газами, такими как угарный газ. Он формирует хороший, удобный метод освещения и топления но он приводит к в отходах углеродов. Основное использование угольного газа сегодня-это отопление.

Сегодня, кроме калорий, мы получаем сотни самых ценных продуктов, которые не имеют ничего общего с маленьким черным кусочком угля. Что еще могут получить ученые из этого "черного золота" в своих лабораториях?

Можем ли мы предсказать это? "Черное золото"!

Можно ли считать это очень смелым сравнением? Люди охотно платят золотом за этот камень, в котором, как известно, энергия Солнца накапливалась миллионы лет и который сейчас является хранилищем огромной силы на службе у человека.

Если мы посмотрим на все продукты, которые мы получаем из угля, мы поймем, что ни при каких условиях золото не может дать нам и тысячной доли того, что мы получаем из угля.

Вот почему, когда люди говорят об угле как о "черном золоте", они только умаляют его значение. Мы можем даже поставить такие вопросы, как: есть ли что-нибудь более ценное для человека, чем уголь? Достаточно ли мы знаем о чудесных свойствах угля? Уделяем ли мы достаточное внимание его добыче и потреблению?

” Солнечный камень ” так русские писатели называют уголь. Это правда. Солнце-источник жизни на НАШЕЙ ПЛАНЕТЕ. Солнце греет и кормит нас. Мы не должны расточать наш "запас" солнечной энергии-этот величайший дар природы.

3.

1. Coal provides the power for our factories, lights our streets and houses, warms us with its stored heat.

2. Coal is one of the greatest sources of materials in the world, a wonderful reservoir of valuable chemicals.

3. A ton of coal may yield large quantities of chemicals and materials, or it can give a little heat, some gas and a little tar.

Вариант 2

Ключ к заданиям:

2.

1. Coal is the product of vegetable matter that has been formed by the action of decay, weathering, and the effects of pressure, temperature and time millions of years ago.

2. Coal beds may consist of essentially uniform continuous strata or like other sedimentary deposits may be made up of different bands or benches of varying thickness.

3. According to the amount of carbon coals are classified into: brown coals, bituminous coals and anthracite.

4. Yes, they are.

5. It may be used for domestic and industrial purposes.

6. Coal will be used as a raw material for the chemical industry and petrochemical processes.

7. Coal conversion includes gasification designed to produce synthetic gas from coal as the basis for hydrogen manufacture, liquid fraction for making liquid fuel from coal and other processes.

3.

1	2	3	4	5	6	7	8	9
в	г	ж	е	и	д	б	а	з

Задание № 2

Вариант 1

Ключ к заданиям:

Угледобывающая промышленность в России

2.

1. Our Land is rich in coal.

2. Coal cutters and cutter-loaders (combines) play a very important role in mining. They do the hard work in our mines. They make man's labour easier.

3. The miners' labour methods are productive.

4. The coal miners work with the aid of coal cutters and coal combines.
5. They do the hard work in our mines.
6. The most famous mining engineers invent various types of devices.
7. The inventors develop mighty fans for intake and return airways.
8. The Federal and local Government display great concern for the development of the coal mining industry and for the safety of coal miners' labour.
9. Yes, they do.

Вариант 2

Ключ к заданиям:

Угледобыча в Англии

2.

1. Roof varies—good, bad and indifferent.
2. Liability to spontaneous combustion is prevalent in thick seams.
3. The object of British mining engineers has always been to conserve their national coal resources by aiming at a maximum recovery.

Приложение 1. Ключи к контрольно-оценочным средствам для промежуточной аттестации

Вариант 1

Ключ к заданиям:

Горная промышленность за рубежом

2.

1. The territory of the USA is rich in coal, natural gas, iron ores, large reserves of petroleum, uranium and other ferrous and non-ferrous metals.
2. The country develops different branches of industry. Among them are mining, iron and steel, machine building, military and others.

3. Most of the total annual coal production comes from the coal-fields in Pennsylvania and the northern part of West Virginia, Illinois and Kentucky and southern West Virginia.
4. The USA mines larger portion of coal, iron ore and other ferrous and non-ferrous metals by the open-cast method.

Вариант 2

Ключ к заданиям:

Горная промышленность -1

2.

1. Mining refers to actual ore extraction.
2. The tendency in mining has been toward the increased use of mining machinery so that modern mines are characterized by tremendous capacities. This has contributed to improving working conditions and raising labour productivity.
3. The problem of depth affects the mining method.
4. working the deposit means the extraction of minerals.
5. Mining can be done either as a surface operation or it can be done by an underground method.

Вариант 3

Ключ к заданиям:

Горная промышленность -2

2.

1. Among the key sectors of the national economy special attention is paid to fuel and energy resources.
2. Russia is rich in large and often unique deposits of mineral resources such as coal, oil, gas, ferrous and non-ferrous metals.
3. Coal continues to play an important part in supplying the country with fuel and electric power.
4. New economic development plans provide for the extensive development of the extractive industries in the eastern regions of the country.

Лист согласования

Дополнения и изменения к комплекту КОС на учебный год

Дополнения и изменения к комплекту КОС на _____ учебный год по дисциплине

В комплект КОС внесены следующие изменения:

Дополнения и изменения в комплекте КОС обсуждены на заседании ЦК

« _____ » _____ 20 _____ г. (протокол № _____).

Председатель ПЦК _____ / _____ /

