Day: 4th August,2020 Day: Tuesday

Topic: Distribution of major crops of Pakistan

Book pg#72-74

Tutor link:https://www.youtube.com/watch?v=9BYKBLuP4qU

Major crops of Pakistan:

Major crops of Pakistan are divided into two main seasons: Rabi and Kharif. Rabi crops are sown in winter (October) and harvested in the summer (May), and these include wheat, barley, gram, oil seeds etc.

In Pakistan food and cash crops are grown. Food crops like rice, wheat, maize, spike and pearl millet etc. cater the food needs of growing population of the country. Crops harvested for the purpose of making profit are called cash crops, like cotton, rice, sugarcane, tobacco etc. These crops are an important source of industrial raw material domestically. Different types of lentils and fruits are also harvested in our country. Pakistan is famous for its fruits. All provinces of Pakistan produce fruits. Important fruits are mango, citrus fruits, grapes, apple, plums, apricot, dates and peach, etc. Fruits in large quantity are also exported to other countries. Major crops of Pakistan are described below:

Wheat

Self-sufficiency in wheat can be achieved and sustained only if wheat yields are increased beyond past levels. This can be done by bringing more area under certified wheat seed. At present, only 10 percent of the wheat-growing area is being sown with certified wheat seed as against the minimally desired 20 percent. Further increase in yield can be realized through improved cultural practices, greater attention to tillage and harvesting, more balanced and timely use of fertilizer, and higher water-use efficiency.

Yield levels in the barani areas of Pakistan are exceptionally low, but yield can be increased if special attention is given to technology generation and dissemination in these areas. Particular attention should be given to the development of appropriate tillage and planting equipment. Research in the development of new wheat varieties will also have to place greater emphasis

Rice

Rice is the second most important economic crop in Pakistan. Pakistan appears to have a comparative advantage in producing the highly-valued, aromatic basmati rice. Basmati has been' a major export of Pakistan, and generates substantial revenues for the government from export duties. The government has adopted a number of policy measures to promote larger production of basmati. The major rice-growing provinces, Punjab and Sindh, account for 54 and 36 percent, respectively, of the area planted. Basmati is grown in the Punjab.

Cotton

After wheat, cotton occupies the largest area of all the crops in Pakistan. Economically, it earns the largest export revenues. In addition to the lint, cottonseed for oil and meal accounts for 80 percent of the national oilseed production. In 1991-92, cotton was grown over about 2.836 million ha, with gl percent of this area in Punjab. Since 1975-76, the area under cotton has increased by 53 percent. In Punjab, the yield increased from 249 kg/ha in

1975-76 to 849 kg/ha in 1991-92. The yield increase in Sindh was only from 363 kg/ha in 1975-76 to 435 kg/ha. Non-availability of good quality seed, a higher incidence of waterlogging, shift of good cotton areas to sugarcane, and absence of proper plant protection measures are the major reasons for this yield stagnation.

Maize

Maize occupied 847,500 ha during 1991-92, increasing from 620,000 in 1975-76. The major maize-growing areas are in NWFP (514,100 ha in 1991-92), and Punjab (311,300 ha in 1991-92). From 1975-76 to 1991-92, maize yields remained static at about 1300 kglha in Punjab. In NWFP, they increased from 1312 to 1507 kgtha

Sugarcane

Sugarcane is an important cash crop of Pakistan, occupying about 896,100 ha in 1991-92: 536,200 ha in Punjab; 255,300 ha in Sindh; and 104,000 ha in NWFP. In Punjab and NWFP, the area under sugarcane has remained static since 1975-76. In Sindh, it has increased by 47 percent. Since 1975-76, sugarcane yields have increased from 36.5 to 43.4 tons/ha for Pakistan as a whole. For Punjab, the increase has been from 36.6 to 37.3; for NWFP,

Sugarcane has experienced limited improvement over the years. A basic constraint is that sugarcane does not produce viable seed in the Indus plain: Another problem is that research stations have very limited area for breeding, replicated experiments, and seed multiplication.

Date: 5 th August, 2020	Day: Wednesday
Topic: Assignment#1	
Give answer to the questions:	
1. What are Rabi crops? Give example.	
Ans. The crops that are sown in winter (October) and harvested Example: Wheat, barley, gram, oil seed etc.	l in summer(May) are called rabi crops.
2. What are Kharif crops? Give example.	
Ans. The crops that are grown in summer(May) and harves ted crops. Example: Rice, Maize etc.	l in winter(October) are called Kharif
3. What is food crop?	
Ans. The crops that meet the food needs of people are called fo	ood crops.
Such as wheat, rice and maize.	
4. What is a cash crop?	

Ans. The crops that are cultivated for the purpose of profit or money are called cash crops.

Example: tobacco, cotton, jute and sugar cane.

5. Write the name of five major crops of Pakistan.

Ans. Five most important and major crops of Pakistan are wheat, rice, maize, cotton and sugarcane.

Date:6th August,2020

Topic: Major Agricultural problems of Pakistan, Irrigation system and its problems

Day: Thursday

Book pg#75-78

Tutor link:https://www.youtube.com/watch?v=9BYKBLuP4qU

Major Agricultural problems in Pakistan:

Agriculture is the backbone of Pakistan's economic and facing cyclones of problems in Pakistan as;

- ➤ Lack of Modern Agriculture technology
- ➤ Poor Financial Position of Farmer
- ➤ Limited Cultivable Area
- ➤ Waterlogging and salinity
- ➤ Slow Growth of Allied Product
- ➤ Low per Hectare Yield
- ➤ Inadequate Infrastructure
- Uneconomic Land holdings
- Old method of Production
- ➤ Inadequate supply of Agriculture Inputs
- ➤ Lack of irrigation Facilities
- ➤ Inadequate Agriculture Research Center
- Problem of Land Reforms
- ➤ Defective Land Reforms
- > Subsistence Farming
- ➤ Low Cropping intensity
- ➤ Improper Crop Rotation

Various Plant diseases and Natural Calamities

Major means of Irrigation:

- > Canals
- > Tube Wells
- > Karez
- > Wells
- > Springs

Problems of irrigation system:

- > Improvement and up gradation
- > Salinity and water logging issues
- > Irrigation system turning during rainy weather
- > water pressure issues
- > over watering and under watering
- > water runoff and polling
- > Over exploitation of fresh ground water
- > Insufficient cost recovery
- > Government policy
- > Wara bandi system
- > Water losses in field
- > Evaporation losses

Date: 7th August, 2020 Day: Friday

Topic: Assignment#2

Give answers to following questions:

1. Write the names of major means of irrigation in Pakistan.

Ans. Canals, tube wells, Springs, well and Karez are means of irrigation in Pakistan.

2. What is a Spring?

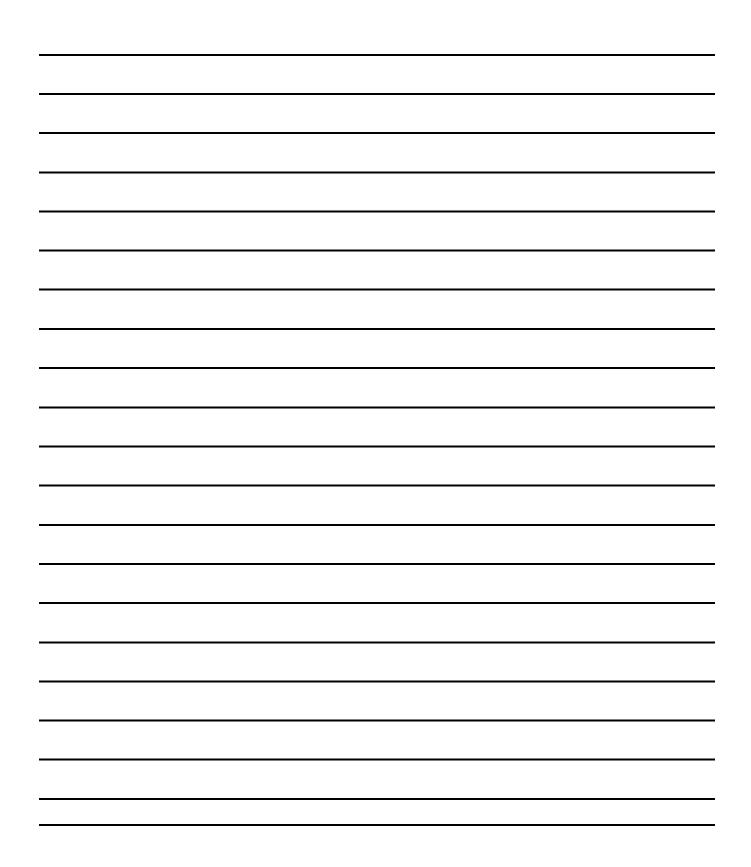
Ans. Spring is the natural source of water where water flows from underground to the surface of earth.

3. What is Karez?	
Ans. Underground water courses are dug which are called Karez these underground channels.	z. In Baluchistan irrigation is done with
4. What are link canals?	
Ans. Canals have been dug to transfer the water of three western two eastern rivers (sutlej and byas) these are called link canals.	n rivers(indus, Jehlum and Chenab) to
5. What are perennial canals?	
Ans. The canals that carry water throughout the year are called pakistan are perennial.	perennial cananls. Most of canals in
Date: 8 th August, 2020	Day: Saturday
Topic: Assessment#7	
Choose correct option:	
I. Pakistan produces percent of total world cotton:	
a) 2% b) 3% c) 4%	d) 5%
II. Which crop is used for food and animal fodder purpo	ose?
a) Wheat b) Maize c) Tobacco	d) Cotton
III. Crops are grown in stepped fields are:	4) 0000011

a)	Plains areas	b) Mountain slopes	c) Desert are	as d)Coastal
IV.	In which prov	ince of Pakistan karez are	used for irrigation?	
a)	KPK	b) Sindh	c) Punjab	d) Baluchistan
V.	A natural sour	rce from which water flow	s to the surface of ear	th from underground is
a)	Tube well	b) Karez	c) Spring	d) Well
Fill	in the blanks:			
I.	Farming of cro	ps and farming of cattle is c	alled	Agriculture
II.	Presently,	% of total cultiv	able areas of Pakistan	depends upon irrigation80
III.	Three-fourth of	f total cultivable area of Pak	tistan is in	Punjab
IV.	Canal system of	of Pakistan consists of Dams	5,	and canalsBarrages
V.		are most ancient	way of acquiring unde	rground waterwell
Wri	te True or False ((T or F) in front of each sta	atement:	
I.	Agricultural se	ctor provides a major part o	f Raw material. T	,
II.	Agricultural se	ctor is not effective in main	taining the balance of 1	payments. F
III.	Pakistan is fam	nous for its fruits. T		
IV.	Cotton is used	for animal fodder. F		
V.	Rice is an impo	ortant kharif crop. T		
Mat	ch the correct sta	itement:		
;	a. Sugarcane and	rice	a. To install Persi	an wheel
1	b. Wheat		b. Harmful for cre	ops
(c. Underground v	vater courses	c. Kharif crop	
(d. Salinity		d. Rabi crop	
(e. Wells are dug		e. Karez	

Date:10 th August,2020 Day: Monday		
Topic: Exercise Chapter#7(short Questions)		
Give answers to following Questions:		
1. What is meant by agriculture?		
Ans. Cultivation of crops and farming of cattle is called	Agriculture.	
2. List means of irrigation.		
Ans. Canals are the most important means of irrigation. springs and pools.	While others are tube well, Karez system, wells,	
3. Name the important crops of Pakistan	ı .	
Ans. Wheat, rice, maize, cotton and sugarcane.		
4. Describe karez and spring.		
Ans. Spring is a natural source of where water flows fr	om underground to the surface of earth.	
Underground water courses are dug which are called ka	rez.	

Date	11 th August, 2020 Day:Tuesday
Topi	e: Exercise chapter#7 (long questions)
Give	detail answer of following questions:
Q.1 E	xplain why agriculture is important?
Answ	er: Importance of Agriculture is described below:
I.	Important source of income:
Agric	altural sector is the mainstay of the world economy.
II.	Source of food:
_	altural sector provides food for the people of a country for example: grains, fruits, milk, vegetables eat etc.
III.	Source of National income:
Agric	altural sector is the main and most important sector of many countries.
IV.	Supply of raw materials:
Agric	altural sector provides the raw materials to the main producing sectors and industries.
V.	Maintenance of balance of Payment:
_	altural sector is very effective in maintaining the balance of payments. Many countries of the receive a major income through exports which are balanced by imports expenditures.



D	ate:12 th August,2020	Day: Wednesday
T	opic: Exercise chapter#7 (long question	as)
Q	.2 Point out the main agriculture problems in	Pakistan.
O	ur Agriculture is facing some important problem	s:
I. III. IV. V. VI.	machinery and irrigation resources are very d Natural disasters are a considerable disturband	ce for cultivators. veable land due to salinity. A lot of arable land has I to bring out crops to market. mber.
_		

Date	e: 13th August, 2020	Day: Thursday
Гор	ic: Exercise chapter#7 (long questions)	
Q.3:	Describe the problems of means of irrigation.	
Ansv	ver:	
I.	A great amount of water is absorbed because of unpaved water con	urses.
II. III.	We have no proper arrangement to store water. Because of silt in unpaved water courses and delay in silt clearing.	, water cannot reach the tail
IV.	ends. Level of underground water is dropping down.	
V.	Consequently tube wells are becoming useless.	

Date:15th August,2020 Day: Saturday

Topic: Mining as an Industry

Book pg#82-84

Tutor link: https://www.youtube.com/watch?v=Sa3aQWS6-6Y

Mining As An Industry:

Mining is an important industry in Pakistan. Pakistan has deposits of several minerals including coal, copper, gold, chromite, mineral salt, bauxite and several other minerals. There are also a variety of precious and semi-precious minerals that are also mined. These include peridot, aquamarine, topaz, ruby, emerald, rare-earth minerals bastnaesite and xenotime, sphene, tourmaline, and many varieties and types of quartz.

Important conditions for mining:

- > Get services of mining experts
- > Miners well-trained
- > Best means of transportation
- > Modern machinery
- > Adequate financial resources
- > Industries should be near

Role of minerals and power resources in economy:

- ➤ Minerals have essential role in economic and industrial development
- Used in industry as raw material
- **Like Iron, Coal, Oil, Gas etc.**

Types of Mining:

Some types of mining are:

1. Hand-Panning Mining:

Hand-Panning, is a form of placer mining and traditional mining that extracts gold from a placer deposit using a pan. The process is one of the simplest ways to extract gold, and is popular with geology enthusiasts especially because of its low cost and relative simplicity.

2. Shaft-tunnel mining:

Shaft mining or shaft sinking is excavating a vertical or near-vertical tunnel from the top down, where there is initially no access to the bottom

3. Adit tunnel Mining:

In this method horizontal tunnels are dug between hill slopes. This type of mining is especially useful in extraction of Salt and Coal.

4. Open-Pit mining:

This method is used for minerals found near surface.in this method overburden is removed little by little. Open pit mining is used for mining of copper, Chromite and limestone.

5. Drilling Mining:

This is the method of extracting minerals from deepepr layers by drilling a hole and use of pipes.this method is in use for oil and gas.

Date:17th August,2020 Day: Monday

Topic: Assignment#3

Give answers to the following questions:

1. What are important conditions of mining?

Answer. Important conditions for mining:

- Get services of mining experts
- Miners well-trained
- Best means of transportation
- Modern machinery
- Adequate financial resources

Answer. Different types of mining techniques are:
 Hand-Panning Mining Shaft-tunnel mining Adit tunnel Mining Open-Pit mining
Drilling Mining
3. Which minerals are collected using hand panning mining?
Answer. Gold is usually collected by Hand-panning mining.
4. For which minerals Driling mining is used?
Answer. Drilling mining is used for the mining of Oil and Gas usually.
5. Write about Open-pit mining.
Answer. This method is used for minerals found near surface.in this method overburden is removed little by little. Open pit mining is used for mining of copper, Chromite and limestone.
Date:18 th August,2020 Day: Tuesday
Topic: Distribution of Major minerals in Pakistan
Book page : 84-87

Tutor link: https://www.youtube.com/watch?v=WE2p6C8TyKg

Distribution of Major Minerals in Pkaistan:

In Pakistan minerals are categorized into two major groups:

Non-Metals: Minerals other than metals.

Metals: like Iron, Copper and chromite

Mineral Oil:



Mineral oil in Pakistan has got dominating economic importance.

Major products include gasoline, petrol, kerosene oil, mobil oil, coaltar etc.

Natural Gas:

- Cheaper source of energy
- Discovered in sibbi at sui in 1952.
- Gas is used as commercial as well as domestic purposes.

Copper:

- In ancient times copper was used for coins and utensils
- Now it is used for electric cables

Coal:

- Coal is used for thermal power
- In brick kilns and commercial needs
- Pakistan has world largest coal reserves

Iron ore:

- Production of iron ore was started in 1957 in Pakistan
- Reserves of iron are more than 450 million tons

Rock salt:

- Rock salt is used in industry as well as cooking
- Pakistan has world secong largest mine of salt in khewra

Chromite:

- There are more than 50 big reserves of chromite in Pakistan
- It is being exported to different countries and also used in Karachi steel mills
- Important metal used in steel industry

Gypsum:

- Gypsum is used as a raw material in the phosphate fertilizers
- It is used as raw material in cement and paper industry
- Also in plaster of Paris, paints, rubber and sulphuric acid industry

Lime stone:

- Extremely useful mineral
- Used in glass, soap, steel and bleaching powder industry

Marble:

- Marble of different colors and types is found in Pakistan
- Used for surfacing of walls and floors of buildings

Date:19th August,2020 Day: Tuesday

Topic: Assignment#4

Give answer to the following questions:

1. Write name of some non-metallic minerals.

Answer. Gypsum, coal, oil, Gas, Limestone and marble etc.

2. Write name of some metallic minerals.

Answer. Gold, iron ore, copper, chromite, silver and alluminium.

3. Write name of major products of mineral oil.
Answer. Major products of mineral oil includes; Gasoline, Kerosine Oil, Petrol, Mobil oil, wax, coal tar etc.
4. Write importance of Gypsum.
Answer. Gypsum is used as a raw material in phosphate fertilizers. It is also used in production of cement, paper, plaster of Paris, sulphuric acid, paints, and rubber.
5. Write the name of areas where chromite is found.
Answer. Chromite reserves are found in Baluchistan in Muslim bagh, Chaghi and Kharan areas.
Some reserves were also found in Malakand and Mehmand agency of KPK.

Date: 20th August,2020 Day: Thursday

Topic: Power sources of Pakistan

Book page(88-90)

Tutor link: https://www.youtube.com/watch?v=yNbySCPHGS0

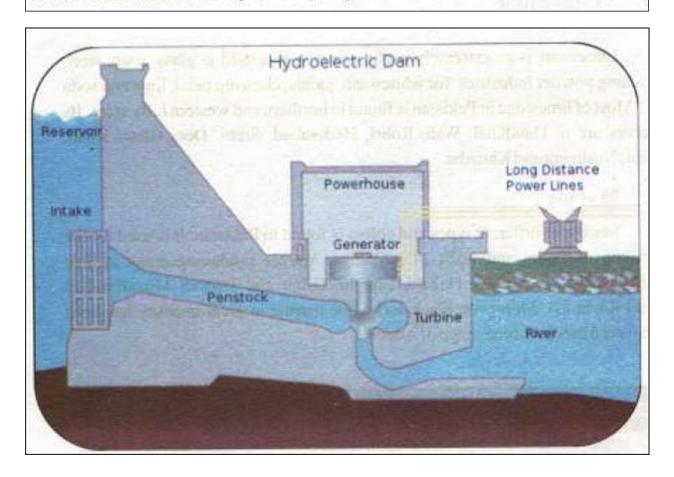
Power sources of Pakistan:

Electricity:

Electricity generating resources of power are as follows:

(i) Hydro Power

Northern and north-western hilly regions are very important for hydro electricity where natural environment is suitable for dams. In plains waters of rivers and canals are used to produce hydro power.



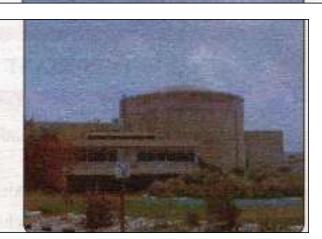
(ii) Thermal-Electric Power

In Pakistan, thermal power plants are running with gas, oil and coal. Thermal power production units are operational in Karachi, Lahore, Multan, Faisalabad, Guddu, Jam Shoro, Muzaffargarh, Sakkhur, Larkana, Kotri, Pasni, Gilgit and Kot Addu. To cater the future needs of electric power in Pakistan many projects are in place and other are in progress.

(iii) Nuclear Power

Pakistan Atomic Energy Commission (PAEC) is responsible for the planning, installation and operation of nuclear power plants in the country. At present time, atomic energy is playing an important role in catering the needs of energy throughout the world.

Karachi Nuclear Power Plant (KANUPP) is the first such plant in Pakistan. Two more atomic energy plants have been installed near Chashma town of district Mianwali: Chashma Nuclear Power Plant I and Chashma Nuclear Power Plant II.



(iv) Solar Power

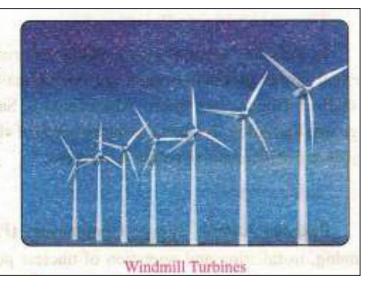
A view of Karachi Nuclear Power Plant

Energy extracted from sunlight is called solar power which is being used for electric power generation. At present solar power is being utilized in Pakistan on a very small scale, for example running small machinery and motors. Soon the solar energy will be the main source of energy all over the world because other sources of energy are expensive and hard to access.

(v) Wind Energy

Use of winds for power generation is called wind-electric power. In Pakistan plans are being implemented to generate electric power with the help of

wind. Windmill consists of three or four blade fans fixed on high poles. These fans are called turbines. Wind moves these fans and their energy is converted to electric power.



Date: 21st August,2020 Day: Tuesday

Topic: Assignment#5

Give answer to following questions:

1. What is meant by PAEC?

Answer. PAEC stands for Pakistan Atomic Energy Comission.

2. Write names of Nuclear power Plants in Pakistan.

Answer. 1. Karachi Nuclear Power Plant 2. Chashma Nuclear Power Plant I 3. Chashma Nuclear Power Plant II .

3. W	hat is solar energy	y ?			
	er. Energy extractersolar energy.	d from sunlight being	g used for generation of el	ectrical power g	generation this is
4. De	efine Wind-electri	c power.			
Answe	er. The use of wind	energy for power ge	neration is called Wind-e	lectric power.	
Date:	22nd August,2	2020		Day	: Wednesday
Topic	c: Assessment o	of Chapter#8 Min	ing and Power		
Note: S	Solve the given ass	sessment by followin	g the key given on next p	age.	
	_	,		C	
Cnoos	se correct option:				
I.	=	nt of Pakistan was ir			
a)	Chashma	b) Lahore	c) Islamabad	d) Karachi	
II. a)	Coal	ch mineral are more b)Salt	than 450 million ton? c) Gypsum	d) Iron	
III.		*	other materials from th	<i>'</i>	d:
a)			crust c) Agricult		d) Geography
IV.	O	, ,	tan are located in the Pr		, 213
a)	KPK	b) Punjab	c)Baluchistan		d) Sindh
V.	In Pakistan, Oil	and gas developmer	nt corporation limited (C	OGDCL) was es	stablished in:
	a) 1961	b) 1971	c) 1	973	d) 1970
Fill in	the blanks:				
I.	Minerals are used	l in industry as		.Raw m	aterial
II.			for mining of		
III.			in Phosphate fer		
IV.			ity has been discovered in		
	of AttackKala chitta range.				

V. Energy extracted from Sunlight is called ______..... Solar power

Write True or False (T or F) in front of each statement:

- I. Use of sun light for power generation is calls wind-electric power.
- II. Oil and Gas development Corporation Limited was established in 1916.
- III. Mineral oil is used in cooking and frying.
- IV. Marble is a metallic mineral.
- V. In ancient times copper was used only for coins and utensils.

Match the correct statement:

a. Extensive reserves of salt in	a. Cheap source of energy
b. First nuclear power plant in	b. Khewra
c. Hydro-electric energy	c. Karachi
d. Chromite	d. From falling water
e. Natural gas	e. Steel industry

Day: Monday

Write True or False (T or F) in front of each statement:

I. F

II. F

III. F

IV. F

V. F

Match the correct statement:

- a. Khewra
- b. Karachi
- c. From falling water
- d. Steel industry
- e. Cheap source of energy

Date: 24th August,2020

Topic: Exercise chapter#8 (Short Questions)

Give short answer to the following questions:

I. Write the names of five non-metal minerals.

II. How wind electricity is generated?
Answer: Wing electricity is generated by using the energy of wind. Wind mills are rotating turbines that rotate when wind flows from one place to other place.
III. Define Mining.
Activity#8
<u>Title: Visit to Khewra Salt Mines</u>
Dear students you know in these days we cannot visit the far more place, so we have a documentary for you.

Watch the video....

 $\underline{https://www.youtube.com/watch?v=}MkYvWXhci9g$



Date: 25th August,2020 Day: Tuesday

Topic: Exercise chapter#8 (Long Questions)

Give answer in detail:

Q.1: point out necessary conditions for mining.

Answer: To get acess to minerals treasure and mining industry:

- It is necessary to get services of mining experts
- Miners should be well trained
- Best means of transportation should be available to send minerals to the industry
- Modern machinery also should be available
- Thorugh digging of mines and adequate financial resources for the extraction of minerals is of utmost importance, so that work may continue without any interruption

 Industries should be there or new industries should be established 						

Date: 28 th August, 2020	Day: Friday
Topic: Exercise chapter#8 (Long Questions)	
Q.2: Explain the role of minerals and power resources in the econo	my of a country.
Answer: In present industrial age, minerals have an essential role in the development of a country.	industrial and economic
 They are important for the economic development and affluent s What is important is to take full advantage of them to steer the nopulence Minerals are used in industries as raw material 	<u> </u>
Among them iron is of utmost importance	
Oil, coal and natural gas provide energy to industries	

Date: 29 th August, 2020	Day: Saturday

Topic: The Factors for locating an Industry

Book page: 94-95

Tutor link: https://www.youtube.com/watch?v=o9yY81r7xgI

The factors for location of an industry

> Raw material:

The factory needs to be close to these if they are heavy and bulky to transport.

> Manpower

A large cheap labour force is required for labor-intensive manufacturing industries. High-tech industries have to locate where suitable skilled workers are available.

> Capital

This is the money that is invested to start the business. The amount of capital will determine the size and location

of the factory.

> Energy

This is needed to work the machines in a factory. Early industries were near to coalfields. Today, electricity allows more freedom.

> Transportation

A good transport network helps reduce costs and make the movement of materials easier.

Market

An accessible place to sell the products is essential for many industries:

- those that produce bulky, heavy goods that are expensive to transport
- those that produce perishable or fragile goods
- those that provide services to people

➤ Government policies

Industrial development is encourages in some areas and restricted in others. Industries that locate in depressed ('Development') areas may receive financial incentives from the government.

Date: 31st August, 2020 Day: Monday

Topic: Assignment#6

Give answers to following questions:

1. What is Industry?

Answer: Industry is a place where investors provide different raw materials and natural resources to skilled labor to produce different products.

2. Write at least three factors that influence the location of industry.

Answer: The factors affecting the location of an industry are: Raw material, Manpower, capital, transportation system, market and government policies.

3. How market is important for location of an Industry.	
Answer: Generally industries are located near markets because, there is an immediate need to sell the finished products to earn profits.	
Activity	
Activity Write at least two paragraphs on importance of Industry in the Economy of Country.	

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