SUBJECT- SCIENCE

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Good Morning students .As you all are aware that we all are going through critical situation.But take care of yourself. I am sending notes of first chapter, if copy is available with you then you can write in class work copy. NCERT BOOK you can download and go through the contents and study material properly.

1. CROP PRODUCTION & MANAGEMENT

AGRICULTURE is the practice of growing crops .Plants grown on a large scale are called crops. Those grown for the production of food are called FOOD CROPS.

E.G.S: Cereals, pulses, oil seeds.

Those grown for commercial purposes are called CASH CROPS.

E.G.S: Jute, cotton, rubber.

Crops are classified on the basis of the season of sowing.

- 1. KHARIF CROPS- Crops like rice ,jute ,maize which are sown during the monsoon .They are harvested around October.
- 2. RABI CROPS- Crops like wheat, mustard, gram sown in October. They are harvested in the month of March.

Crops need sufficient air ,water ,sunlight and nutrients to grow well. They also need to be protected from diseases .Let us see what farmers do to ensure the healthy growth of crop plants.

BASIC AGRICULTURAL PRACTICES

- a) Preparing the soil
- b) Sowing seeds
- c) Improving soil fertility
- d) Irrigation
- e) Crop Protection
- f) Harvesting

a) PREPARING THE SOIL

It involves three steps

moisture.

PLOUGHING - A plough is a farm equipment with a curved blade used to loosen and turn the soil. Ploughing loosens the soil and creates air spaces. It also helps the soil retain

LEVELLING – The big chunks of soil are broken and the soil is pressed down lightly with a leveller. This process is called Levelling .It helps to distribute water evenly over the field.

MANURING – Some fertilizers and manure are added before the sowing of seeds.

b)SOWING SEEDS – Seeds have to be sown at the right depth and at right intervals .Seeds can be scattered over the field by hand - called BROADCASTING.

A better way to use a seed – drill. A seed drill has a funnel shaped seed bowl connected to several tubes. The drill is attached to a plough.

c)IMPROVING SOIL FERTILITY

These include adding manure and fertilizers to soil and adopting certain methods of farming.

d)IRRIGATION

The process of providing water to crops.

e)CROP PROTECTION

Crops have to be protected against diseases, pests and weeds.

f)HARVESTING

The process of cutting and gathering a crop. Modern farmers use a harvester, which cuts the crop.

(Class - 8) Exercises

Question 1:							
Select the correct	word from the	following list and fi	ll in the blanks.				
float, water, crop,	nutrients, prep	paration					
(a) The same kind	of plants grov	yn and cultivated on	a large scale at	a place is called			
		crops is					
(c) Damaged seed	s would	on top of water	r.				
(d) For growing a	crop, sufficient	t sunlight and	and	from the soil are essential.			
Answer 1:							
(a) The same kind	of plants grow	vn and cultivated on	a large scale at	a place is called crop.			
		crops is preparati	on of the soil.				
(c) Damaged seed:							
(d) For growing a	crop, sufficien	t sunlight and water	rand nutrients	from the soil are essential.			
Ouestion 2:							
Match items in col	4	aas in anluuun B					
A A	umn A with th						
(i) Kharif crops		B (a) Food Food State and In					
(ii) Rabi crops		(a) Food for cattle (b) Urea and super phosphate					
(iii) Chemical ferti	llsors	(c) Animal excreta, cow dung urine and plant waste					
(iv) Organic manu		(d) Wheat, gram, pea					
(iv) organic manure		[e] Paddy and maize					
€ Answer 2:		(-3)	2002				
A		В					
(i) Kharif crops		(e) Paddy and maize					
			Vheat, gram, pea				
(iii) Chemical fertilisers		(b) Urea and super phosphate					
(iv) Organic manure		(c) Animal excreta, cow dung urine and plant waste					
Ouestion 3:							
Give two example:	s of each.						
(a) Kharif crop		Rabi crop					
Answer 3:	70.0	Construction of					
(a) Kharif crop	Paddy, mai:	naize, soyabean, groundnut, cotton, etc.					
(b) Rabi crop		gram, pea, mustard, etc.					
Question 4:							
The state of the s	in your own v	vords on each of the	following.				
(a) Preparation of			(b) Sowing				
(c) Weeding		(d) Threshing					
Answer 4:		The Control of the Co	0.000000				
(a) Proportion of	west						

(a) Preparation of soil

The preparation of soil is the first step before growing a crop. One of the most important tasks in agriculture is to turn the soil and loosen it. This allows the roots to penetrate deep into the soil. The loosened soil helps in the growth of earthworms and microbes which are friends of the farmer and add humus to it. Also, turning and loosening of soil brings the nutrient-rich soil to the top so that plants can use these nutrients.

(Chapter - 1) (Crop Production and Management) (Class - 8)

(b) Sowing

Sowing is the most important part of crop production. Before sowing, good quality seed. Good quality seeds are clean and healthy seeds of a good variety. Seeds can be sown or manually.

(c) Weeding

Weeds are unwanted plants that grown along with crops and removal of weeds is known as weeding. Weeds can be removed either manually by using tools like khurpi or by using weedicides like 2, 4 – D. These are sprayed in the fields to kill the weeds.

(d) Threshing

The process of separation of the grains from the chaff is called threshing. This is carried out with the help of a machine called 'combine' which is in fact a combined harvester and thresher.

Ouestion 5:

Explain how fertilisers are different from manure.

Answer 5:

The main Differences between Fertiliser and Manure are as follows:

S.No	Fetilisers	Manures			
1.	A fertiliser is an inorganic salt.	Manure is a natural substance obtained by the decomposition of cattle dung, human waste and plant residues.			
2.	A fertiliser is prepared in factories.	Manure can be prepared in the fields.			
3.	A fertiliser does not provide any humus to the soil.	Manure provides a lot of humus to the soil.			
4.	Fertilisers are very rich in plant nutrients like nitrogen, phosphorus and potassium.				

Ouestion 6:

What is irrigation? Describe two methods of irrigation which conserve water.

Answer 6:

The supply of water to crops at different intervals is called *irrigation*. The two methods of irrigation which conserve water are as follows:

(i) Sprinkler System:

Under this method, the perpendicular pipes, having rotating nozzles on top, are joined to the main pipeline at regular intervals. When water is allowed to flow through the main pipe under pressure with the help of a pump, it escapes from the rotating nozzles. It gets sprinkled on the crop as if it is raining.

(ii) Drip system:

In this system, the water falls drop by drop just at the position of the roots. It is the best technique for watering fruit plants, gardens and trees. Water is not wasted at all. It is a boon in regions where availability of water is poor.

Ouestion 7:

If wheat is sown in the kharif season, what would happen? Discuss.

€Answer 7:

Wheat is a rabi crop, hence it requires cold climatic conditions to be grown properly. If it is sown in the kharif season, it will not grow or may get destroyed due to excessive rains in the kharif season.

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