

Chapter 9

Short Questions:

1. What is science?

Ans: Science is the knowledge or study about the natural world.

2. What is technology?

Ans: Technology is the practical application of science to solve the problems of our life.

3. What is biotechnology?

Ans: Biotechnology is a technology that uses living things to make new product for human welfare. For example, agricultural biotechnology is a way to make plants with special qualities.

4. What are the steps of scientific method?

Ans: Observation, question, hypothesis, experiment, conclusion, sharing.

5. Give some examples of mechanical technology.

Ans: Tractor, irrigation pump, threshing machine etc.

6. When did the industrial revolution take place?

Ans: Industrial revolution took place in the 18th century.

Broad Questions:

1. Write the differences between science and technology.

Ans: The differences between science and technology are given below:

Science	Technology
i. Science is the knowledge of natural phenomena.	i. Technology is the practical application of science.
ii. It is the process of exploring new knowledge.	ii. It is the use of laws of science to create new products.
iii. Used to make predictions.	iii. Simplify the work and fulfill the needs of people.

iv. Science is focused more on analysis.	iv. Technology is all about the synthesis of design.
v. Study of structure and behavior of natural and physical world, to create premises.	v. Putting those premises into practice.

2. How does the agricultural technology help to improve our life?

Ans: The agricultural technology helps to improve our life in following ways:

- i. People use agricultural machinery such as tractor, irrigation pump, threshing machine etc. to produce a lot of food in the shortest period of time.
- ii. Farmers use chemical fertilizers and pesticides to grow more crops and resist harmful pests and weeds.
- iii. Special kinds of plants are invented with the help of biotechnology.
- iv. Biotechnology allows farmers to grow plants that are more nutritious, more resistant to pests and more productive.
- v. Less energy is required from the farmer because the agriculture system sustains itself.

3. Why does technology develop? Write five examples of the abuse of science/ Write the negative effects of technology.

Ans: Technology develops to solve the practical problems and to elevate the lifestyle of human beings.

Five examples of the abuse of science are given below-

- i. Air gets polluted when coal is burnt in power plant to produce electricity.
- ii. Acid rain and global warming are caused when black smoke emitted from the factories mix with air.
- iii. Weapons of mass destruction are developed.
- iv. Soil is polluted by the use of chemical fertilizers and pesticides.

v. Sometimes people become addicted to the technologies and harm normal life.

4. Why should we be humane in the use of technology?

Ans: We should be humane while using technology because sometimes using technology turns into addiction. If we do not use TV and computer for productive works, it will waste our time. Technology hinders our regular sports, exercise and free thinking. Watching TV or using computer more than two hours at a stretch is harmful for our health. Weapons produced for war are destructive for mankind.

5. How does technology use the knowledge of science? Or, How do science and technology depend on each other?

Ans: Technology applies scientific knowledge to design tools, products and appliances that can improve the standard of human life. For example- scientists have studied about electricity and built up our understanding of it. This knowledge is applied to design technologies like- refrigerator, TV, mobile phone, electric light etc. Technology also uses the knowledge of science in many fields such as education, medical care, communication and transportation.

নবম অধ্যায়ের উত্তর দেয়া হয়েছে। ছাত্র ছাত্রীদের প্রতিটি পড়া সম্পূর্ণ করার পর অবশ্যই সংশ্লিষ্ট শির্ষিকার নিকট ফোনের মাধ্যমে পড়া জমা দেয়ার জন্য বলা হচ্ছে। কোন প্রশ্ন বুঝতে সমস্যা হলে শির্ষিকার কাছ থেকে বুঝে নিবে। এ বিষয়ে সম্মানিত অভিভাবকগণের সার্বিক সহযোগিতা আশা করছি। সবাই নিরাপদে থাকুন।

English

Solve the problems and submit it as an assignment after vacation

* Re-arrange words in the correct order to make meaningful sentences:

i)

a) is/ developing/ Bangladesh/ country/ a.

b) believes/ a/ nobody/ liar.

c) is/ friend/ your/ who/ best?

d) is/ father/ my/ farmer/ a.

e) is/ the/ honesty/ policy/ best.

ii)

a) There/ hare/ once/ was / a.

b) walking/ he/ forest/ was/ beside/ a.

c) he / suddenly/ tortoise/ a/ saw.

d) it/ slowly/ moving/ was/ very.

e) at/ he/ it/ laughed.

iii)

a) TV/ watches/ on/ he/ cartoons.

b) sports/ cricket/ favourite/ my/ is.

c) national/ of/ fruit/ wha/ Bangaldesh/ is/ the?

d) eat/ quickly/ we/ it/ should.

e) very/ she/ warm/ feels.

iv)

a) not/ rich/ happy/ the/ are/ always.

b) developing/ Bangladesh/ country/ is/ a.

c) believes/ liar/ nobody/ a.

d) main/ rice/ our/ is/ food.

e) December/ victory/ our/ 16th/ is / day.

v)

a) ask/ some/ can/ question/ I/ you?

b) want/ what/ know/ do/ you/ to?

c) my/ painting/ I/ leisure/ spend/ time.

d) you/ book/ me/ could/ your/ lend?

e) river/ I/ swimming/ the/ go/ in.

* Read the instructions about making a glass of cold sharbat. Then answer the following questions.

1. Take a glass of cold water.
2. Put two spoonful of sugar into it.
3. Put a pinch of salt into it.
4. Put some lemon juice into it.
5. Stir the mix with a spoon.

Question:

a) What ingredients do you need to make sharbat?

b) When do you like cold sharbat?

c) How do you make a glass of lemon sharbat?

B. Read the instruction about birthday party.

Then answer the following question.

1. Invite the relatives and friends.
2. Decorate your house beautifully.
3. Arrange a birthday cake.
4. Cut the cake in the midst of the quest with the birthday song.
5. Serve the delicious foods and cake to the quest.

Question:

a) What is the main attraction of a birthday party?

b) Who cut the birthday cake?

c) How have you enjoyed your last birthday party?