

**CLASS VIII**  
**Science**  
**Assignment 1**

**Chapters – Cell, Microorganisms and Coal and Petroleum**

**(I) Choose the correct option:**

- (i) Which of the following is an antibiotic?  
(a) sodium bicarbonate (b) streptomycin  
(c) alcohol (d) yeast
- (ii) The bread dough rises because of:  
(a) heat (b) grinding  
(c) growth of yeast cells (d) kneading
- (iii) The major component of natural gas is:  
(a) nitrogen (b) ethane  
(c) water vapour (d) methane
- (iv) Which of the following is a prokaryotic cell?  
(a) bacteria (b) blue-green algae  
(c) both of them (d) None of them

**(II) Draw neat and labeled diagrams of:**

- (a) Cells of onion peel  
(b) Cells of human cheek

**(III) Give reasons for the following:**

- (a) We should use fossil fuels only when absolutely necessary.  
(b) Viruses are said to lie on the border line dividing the living things from non-living things.

**(IV) Value based:**

- (a) Amoeba is a single cell which can change its shape. A white blood cell present in human blood is another example of a single cell which can also change its shape. What is the difference between them?  
(b) PCRA advises regular maintenance of the vehicle. How does it help in saving fuel?

**(V) HOTS:**

- (a) Explain the chemical change brought about by lactobacillus bacteria in changing milk to curd.  
(b) Explain how natural gas is utilized in manufacturing of fertilizers.