

Belife

[illegible]

.....

.....

.....

.....

.....

c. Distinguish between physical and chemical weathering.

Physical Weathering	Chemical weathering
1.	
2.	
3.	
4.	
5.	

02. a. What is "Soil genesis"?

.....

.....

.....

.....

b. List the contributions being made by burrowing animals during soil genesis.

.....

.....

.....

.....

.....

.....

.....

.....

.....
.....
.....
.....
.....
c. What is meant by “young soil”?

.....
.....
.....
.....
d. What are the changes happening during the conversion of young soil to mature soil?

.....
.....
.....
.....
.....
e. With the help of an example, explain the relationship between soil development and parent material.

.....

.....

.....

.....

.....

c. Bulk density and particle density of a soil are 1.5 and 3.0 respectively. Calculate the % pore space for that soil.

.....

.....

.....

.....

.....

d. Based on the value you obtained in part "c" above, comment on the texture of that soil.

.....

.....

.....

.....

.....

.....

.....

.....

4. . a. What is Cation Exchange Capacity of a soil?

.....

.....

.....

.....

.....

b. The Cation Exchange Capacity(CEC), % H^+ concentration, % base saturation and pH of four types of soil are given below.

Soil type	CEC (meq)	% H ⁺ concentration	% Base Concentration	pH
Soil A	15	50	50	5.5
Soil B	15	20	80	6.5
Soil C	10	20	80	6.5
Soil D	10	60	40	5.0

Based on your knowledge on the availability of acidic and basic cations in soil, how do you explain having different pH values with the same CEC in those soils?

This image shows a full page of white paper with horizontal dotted lines, typical of primary school writing paper. The lines are evenly spaced and run across the entire width of the page. There are no margins, text, or other markings present.