

S.2 AGRICULTURE HOLIDAY PACKAGE

- 1a.** Describe the nitrogen cycle.
 - b.** How are nutrients lost from the soil
 - c.** State the functions of each of the following elements in the soil.
 - i. Nitrogen
 - ii. Phosphorus
 - iii. Potassium
 - e.** Give the effects of excess nitrogen in the soil.
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- 2a.** What is a fertilizer?
 - b.** Define the following terms and give two examples in each case
 - i. Incomplete fertilizers
 - ii. Complete fertilizers
 - c.** Give the advantages and disadvantages of organic and inorganic fertilizers
 - d.** Describe the steps followed when preparing compost manure using the pit/Indore method.
 - e.** Explain the factors that affect the quality of farm yard manure.
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- 3a.** Define the term soil sampling
 - b.** State the objectives of soil sampling
 - c.** Describe the steps taken when carrying out soil sampling.
 - d.** Mention the areas that should be avoided when sampling.
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- 4a.** Define the following terms as used in soil science
 - i. Soil pH
 - ii. Soil structure
 - iii. Soil profile
 - iv. Soil texture
 - b.** State the influence of soil pH in crop production.
 - c.** Explain how soil pH can be improved for crop production.

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