

**Pooters**

A **pooter** is a small jar used for collecting insects. It has two tubes - one goes into your mouth so you can apply suction, and the other goes over the insect so that is sucked into the jar. A fine mesh over the end of the first tube stops you swallowing the insect.

Diagrams **D and E** are illustrations of tools used for **ecological studies.** *Study them and answer questions 2(a) to (c).*

(a)(i) Identify diagrams **D and E** [3 marks]

i. Name the parts labeled **I, II, III, IV, V, VI**  [4 marks]

ii. State one function each of the parts labeled **I, III, IV, and V.** [5 marks]

(b) State **one** use **each** of the tools labeled **D, and E.** [3 marks]

(c) Describe **briefly** the use of **each** of the tools labeled **D and E.** [10 marks]

(d) Draw and label **D and E**

**PRACTICAL ANSWERS**

1. (i) Identification of diagrams D and E

**D** – Sweep net/butterfly net/ insect net/ hand net

**E** – Pooter;

(ii) Names of labelled parts

**I**- Handle (of Sweep net/butterfly net);

**II**- Net;

**III**- Suction tube;

**IV**- Wire mesh/gauze/cotton;

**V**- Specimen container/tube;

**VI**- Collecting/ tube;

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(iii) Function of parts labelled I, III, IV, and V

I - Handle of Sweep net/butterfly net: for holding the instrument in place for use;

III - Suction tube: to apply suction pressure to draw in the insect;

IV - Wire mesh/gauze/cotton/sieve: prevents the insect /dirt from entering the/suction tube/mouth;

V **-** Specimen container/tube; for keeping the sucked insect

1. Use of tools labelled D and E

D - Sweep net/butterfly net: to catch flying insects

E - Pooter: to collect tiny invertebrates from leaves /litter/crevices

(c) Description of use of

(i) D/Sweep net/butterfly net

* the handle of the net is swung towards the organisms when sighted;
* when the organisms are caught;
* the middle part of the net is held closed to prevent the escape of the organisms.

(ii) E/Pooter

* the collecting tube is pointed to the organism when sighted;
* And the suction tube is placed in the mouth and sucked;
* The insect is drawn into the specimen tube/container.

(d) Well labeled diagram of **D**



