Standard Grade Biology

The Biosphere   **Investigating an Ecosystem**

1. Name (a) 3 biotic factors
           (b) 3 abiotic factors

(2)

2. Describe how you would measure one of the abiotic factors from 1(b).

(2)

3. What error could occur while you are measuring this abiotic factors and how could you minimise the chances of it happening?

4. Write down what the following are used for:
    (a) pitfall trap   (b) pooter
    (c) sweep net   (d) quadrat.

(4)

5. Pick any organism and state how its distribution can be influenced.

(2)

6. The information in the table below describes four trees found in a wood.

Name of tree	Deciduous	Shape of Leaves	Position of Cones
Pinus sylvestris	evergreen	narrow needles	hang down when mature
Illex decidua	evergreen	broad	not present
Larix aquifolium	deciduous	narrow needles	upright when mature
Abies alba	evergreen	narrow needles	upright when mature

Construct a branching key for these four trees.

(4)

7. Some of the characteristics of 4 British swallow-like birds are shown in the table below.

Species	Tail	Appearance	Coloured Breast Band
Sand martin	Notched	Light	Present
House martin	Notched	Light	None
Swift	Notched	Dark	None
Swallow	Forked	Light	Present

Construct a paired statement key to identify the above birds.

(4)

Total = 20