

Internal waves in the atmosphere questions

1 In the first paragraph the writer uses 'may' twice. He does this because:

- A – he is unsure of the reliability of his statements.
- B – he is not wishing to sound dogmatic.
- C – he is a scientist and has no evidence to back up what he is saying.
- D – what he describes does not always happen.

2 In the second paragraph (under figure 2) the writer refers to 'wavelength dependent diffraction'. The wavelength he refers to is the:

- A – wavelength of the internal wave.
- B – the wavelength of scattered light.
- C – the wavelength of incident light.
- D – the wavelength of sound.

3 In the short paragraph under figure 3 the writer uses the term 'fossil' cloud. He uses the term because:

- A – these clouds persist for long periods of time like fossils.
- B – these clouds were formed by another process.
- C – these clouds are rare.
- D – these clouds are found only in some places.

4 In the paragraph under the heading the writer refers to internal waves in the sea as being slow moving. The reason he gives for this is:

- A – the waves are below a layer of fresh water.
- B – the layer of fresh water is relatively shallow.
- C – the density of sea-water is close to that of fresh water.
- D – fresh water on the sea from rivers in flood is often muddy.

5 In the paragraph headed **Note**: the writer changes to a first person construction. He does this because:

- A – he is unhappy with the convention of scientific writing in the past passive.
- B – he forgot to write in the past passive.
- C – he is telling a personal story.
- D – he does not have an image of what he saw.

6 According to the writer in the paragraph headed **Dead Water** his boat was ‘going like the clappers’. The meaning of this expression in this context is closest to:

- A – left and right
- B – really fast
- C – heeled over at an angle
- D – bouncing about

7 The internal wave velocity in figure 5 is not given accurately by the gravity wave equation. The reason the writer gives is closest to:

- A – the tank is small.
- B – the densities of the two layers are not the same.
- C – the blue layer is shallow.
- D – the wavelength is not constant.

8 The writer suggests a photographic project. Why does he insist that a camera be carried?

- A – K-H instability clouds are rare.
- B – K-H instability clouds are sometimes short-lived.
- C – The appearance of these clouds is unpredictable.
- D – A cloud atlas requires a lot of images.