ANSWER KEY – Worksheet: Valleys

Total marks: 51. Answers are in green. For written answers, accept any correct answer in the student's own words that covers the key points.

A. Multiple-choice questions [8 marks]

Circle the letter of the correct answer.

1. Valleys are low land between:
a) deserts and plains — **b) hills and mountains**
c) rivers and seas — d) plateaus and plains

2. V-shaped valleys are mainly formed by:
a) glaciers — b) wind
c) fast-flowing water — d) earthquakes

3. Water flows fastest where the land:
a) is flat — **b) slopes steeply**
c) is sandy — d) is frozen

4. A glacier is:
a) a fast-flowing river — **b) a huge body of ice that moves downhill**
c) a type of rock — d) a mountain peak

5. Bagrot Valley in the Karakoram Mountains is an example of a:
a) V-shaped valley — **b) U-shaped glaciated valley**
c) rift valley — d) lowland plain

6. A rift valley forms where tectonic plates:
a) move apart — b) stay still
c) are covered with ice — d) are worn away by wind

7. Which is a famous valley of Gilgit-Baltistan?
a) Swat Valley — **b) Hunza Valley**
c) Quetta Valley — d) Neelam Valley

8. In a rift valley, the raised blocks of land on either side are called:
a) graben — **b) horst**
c) glaciers — d) streams

B. Fill in the blanks [8 marks]

Use the words from the word bank.

Word bank: Indus • V • U • erosion • tectonic • graben • summer • ice

1. A large part of Pakistan lies in the **Indus** valley.

2. A valley cut by fast-flowing water is shaped like the letter **V**.

3. A glacier cuts a valley shaped like the letter **U**.

4. The wearing away of rock by water, ice or wind is called **erosion**.

5. The East African Rift Valley formed where **tectonic** plates moved apart.

6. The sunken block of land between two faults is called a **graben**.

7. A glacier is a huge body of **ice** that moves downhill.

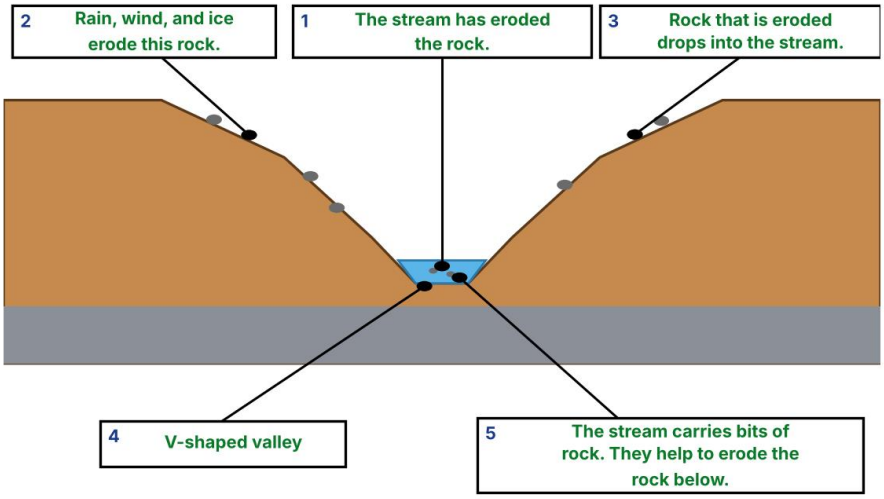
8. Valleys are usually accessible in **summer** and blocked during winters.

C. Label the diagrams [19 marks]

Write the correct label in each numbered box. Use the word bank. Some labels are used more than once.

Word bank: V-shaped valley • U-shaped valley • erosion • glacier • ice • stream • horst • graben • fault • faults • Rain, wind, and ice erode this rock. • Rock that is eroded drops into the stream. • The stream has eroded the rock. • The stream carries bits of rock. They help to erode the rock below. • Bits of rock in the ice erode the rock

Diagram 1: How a V-shaped valley is formed



How a V-shaped valley is formed

Diagram 2: How U-shaped valleys are formed

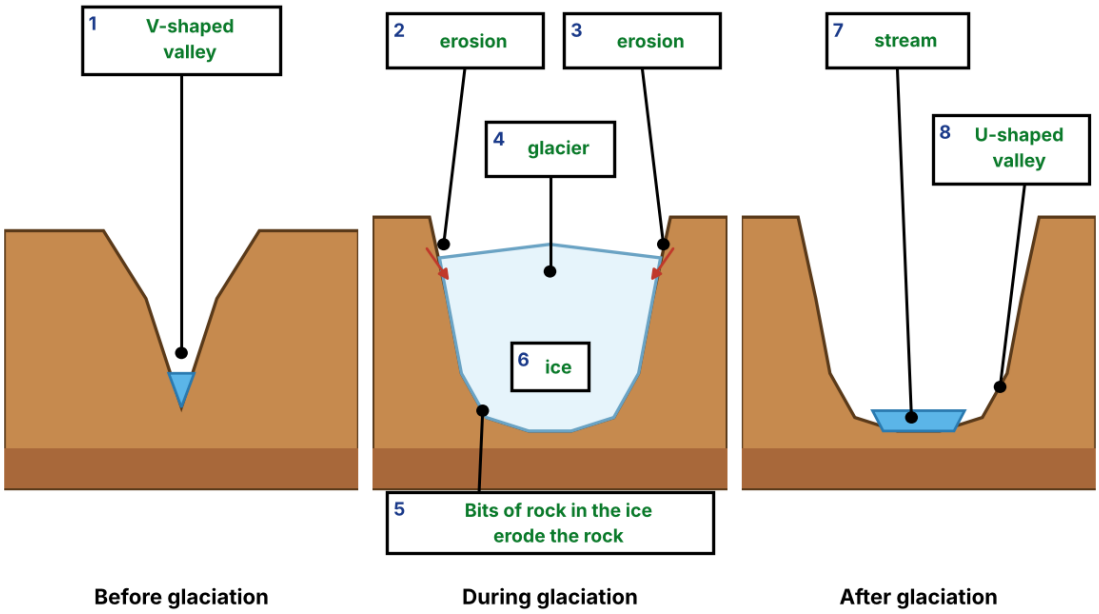
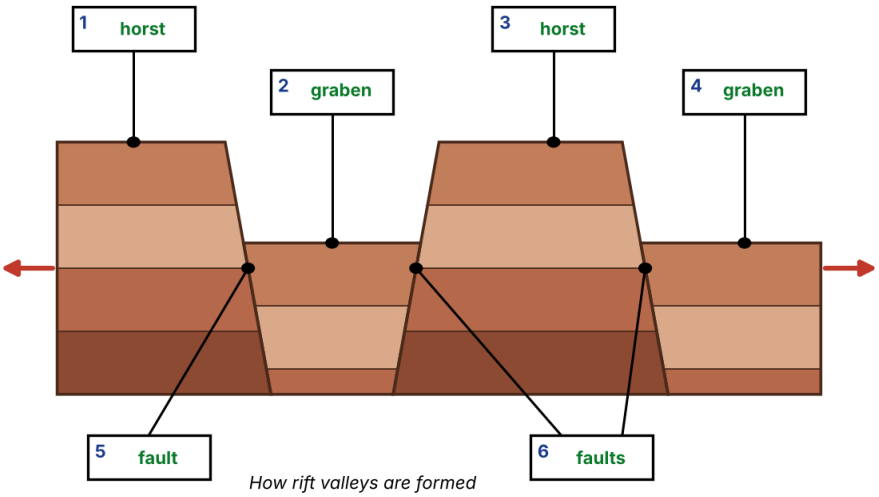


Diagram 3: How rift valleys are formed



How rift valleys are formed

D. Short questions and answers [12 marks]

Answer in complete sentences. Write your answers on the lines.

1. What is a valley?

A valley is low land between hills and mountains. It can be narrow or so wide that you cannot see the mountains from the middle.

2. Explain how a V-shaped valley is formed.

Fast-flowing water cuts through mountain rock, especially where the land slopes steeply. The water flows downhill with great force and erodes the rock. Bits of rock carried by the stream help to erode the rock below, while rain, wind and ice break the sides so loose rock drops into the stream. This cuts a valley shaped like the letter V.

3. How does a glacier form a U-shaped valley?

A glacier is a huge body of ice that moves downhill from high mountains. As it moves, the ice and the bits of rock in it erode the mountain rock and cut a valley shaped like the letter U. A narrow stream may be left running through the valley after the ice has gone.

4. What is a rift valley? Name any two countries through which the East African Rift Valley runs.

A rift valley is a large valley that forms where tectonic plates move apart (it lies between fault-block mountains). The East African Rift Valley runs through Ethiopia, Kenya, Uganda, Rwanda, Burundi, Zambia, Tanzania, Malawi and Mozambique (any two).

5. Write two differences between a V-shaped valley and a U-shaped valley.

(1) A V-shaped valley is cut by fast-flowing water (a river or stream), but a U-shaped valley is cut by a glacier (moving ice). (2) A V-shaped valley has a narrow V-shaped bottom, while a U-shaped valley has a wide, rounded U-shaped floor.

6. Describe two features of the lifestyle of people living in valleys.

Any two: they live a simple and isolated life; many houses are built into the cliffside; most people do crop and livestock farming, inland fishing and cottage industry; valleys are usually accessible in summer but blocked in winter; building modern transport is difficult because it needs heavy machinery and capital.

E. Famous valleys of Pakistan [4 marks]

Name one famous valley from each province or region.

Province / Region	Name of one famous valley
Balochistan	**Quetta Valley (or Chaman, Moola, Urak)**
Khyber Pakhtunkhwa	**Swat Valley (or Kalash, Kaghan, Tochi)**
Azad Kashmir	**Neelam Valley (or Bagh, Jhelum, Leepa)**
Gilgit-Baltistan	**Hunza Valley (or Gilgit, Skardu)**

WORKSHEET: VALLEYS

Name: _____ **Class:** _____ **Date:** _____

Total marks: 51

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B. Fill in the blanks [8 marks]

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1. A large part of Pakistan lies in the _____ valley.

2. A valley cut by fast-flowing water is shaped like the letter _____.

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4. The wearing away of rock by water, ice or wind is called _____.

5. The East African Rift Valley formed where _____ plates moved apart.

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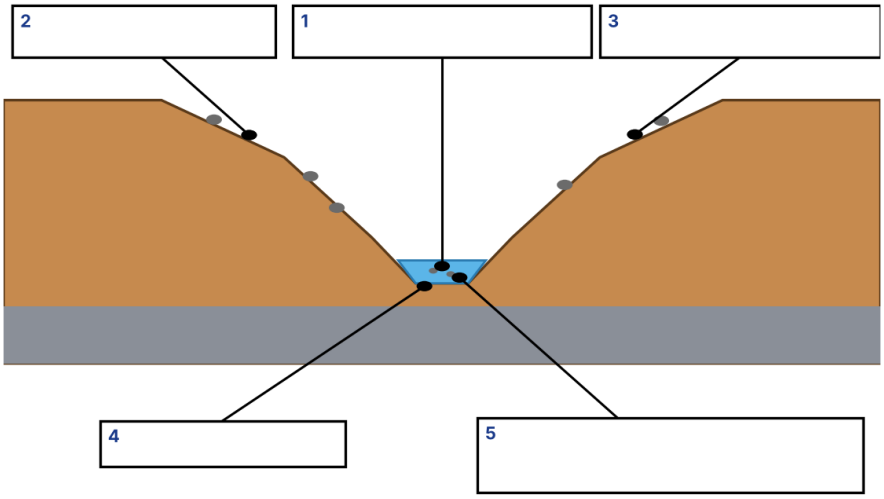


How a V-shaped valley is formed

Diagram 2: How U-shaped valleys are formed

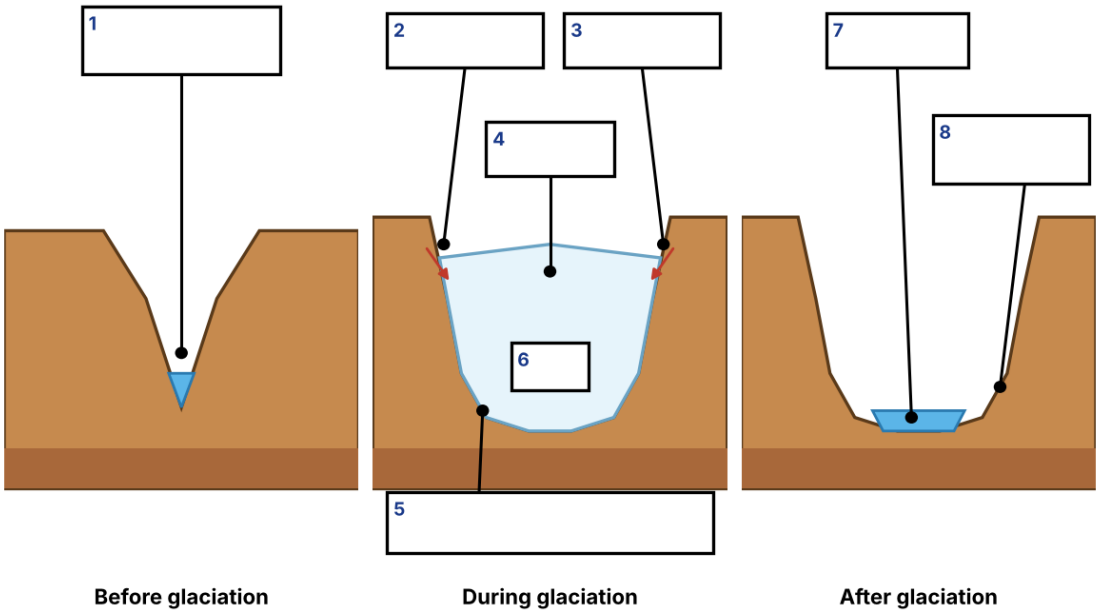
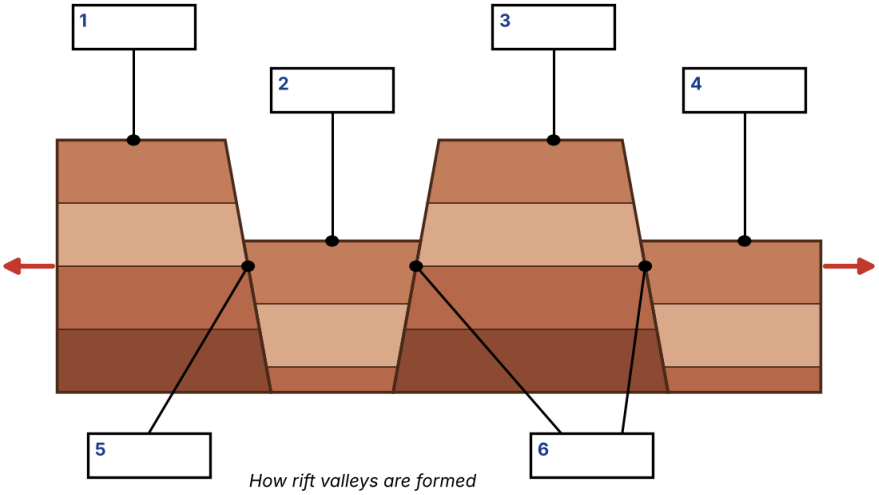


Diagram 3: How rift valleys are formed



How rift valleys are formed

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