



Name _____ Class _____ Roll no. _____ Date _____ Marks _____ / 37

1 Key words**[4]**

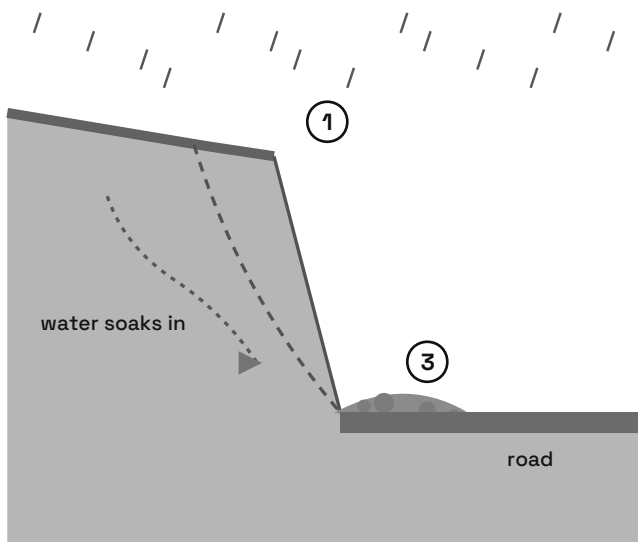
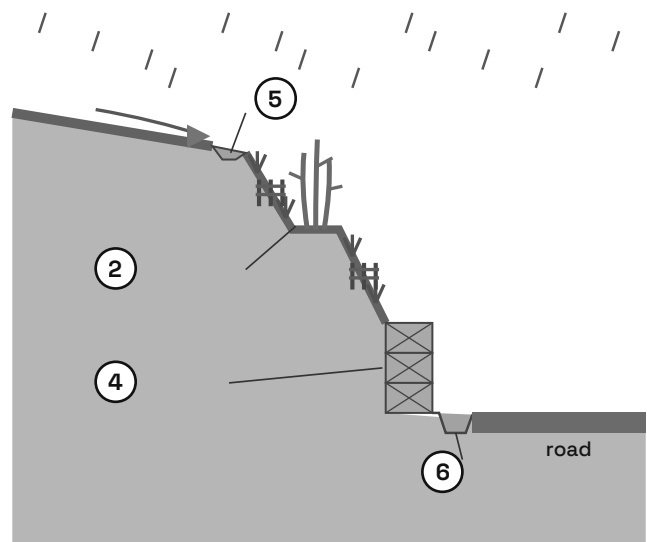
Fill in the blanks with words from the box. Two words in the box are not needed. Each blank carries 0.5 mark.

biodiversity ex-situ faunal floral genetic diversity in-situ invasive quadrat
species diversity sustainable development

The variety of life, from genes to species to ecosystems, is called _____. The diversity of animals is _____ diversity. The variety among individuals of one species, caused by their genes, is _____. A square of 1 m² marked out to count living things is a _____. Protecting wildlife in a national park is _____ conservation; in a zoo it is _____ conservation. Plants from other countries that push out native plants, like banmara, are _____ plants. Development that meets present needs without harming the ability of future generations to meet theirs is _____.

2 Label the diagram**[3]**

The diagram shows a road cut into a hillside in two ways. Write the names of the parts numbered 1 to 6. Each carries 0.5 mark.

**Cut steep and bare, no drain****Stepped slope, plants, wall and drains**

1. _____
3. _____
5. _____

2. _____
4. _____
6. _____



[5]

Choose the correct option for each of the following questions.

- i. Where was the Earth Summit on biodiversity held in 1992? [1]
 - a. China
 - b. Brazil
 - c. Africa
 - d. Japan
- ii. Which of these shows the importance of biodiversity? [1]
 - a. fodder and firewood are obtained from forests
 - b. forests keep the land green
 - c. tourists visit attractive forests for fun
 - d. people are afraid of wild animals in forests
- iii. Riya wants to conserve an endangered plant. Which of her actions is **ex-situ** conservation? [1]
 - a. she plants it in the community forest
 - b. she plants it in the same forest where she found it
 - c. she plants it in her kitchen garden
 - d. she plants it on a river bank
- iv. Which commission's report gave the best-known definition of sustainable development? [1]
 - a. the Kyoto report
 - b. Agenda 30
 - c. the UNO
 - d. the Brundtland Commission
- v. As snowfall on the Himalaya declines, which is the main challenge to sustainable farming in the region? [1]
 - a. land slowly turning into desert
 - b. frequent floods and landslides
 - c. land drying out because there is less snow
 - d. the soil becoming less fertile

[3]

Write very short answers to the following questions.

- | | | |
|-------|---|-----|
| a. | Which bird is found only in Nepal and nowhere else in the world? | [1] |
| <hr/> | | |
| <hr/> | | |
| b. | How many Sustainable Development Goals did the United Nations agree on in 2015? | [1] |
| <hr/> | | |
| <hr/> | | |
| c. | Why are the seeds of thousands of varieties of Nepal's crops stored in the national gene bank at Khumaltar? | [1] |



5 Short answers

[8]

Write short answers to the following questions.

- a. Write any two differences between in-situ conservation and ex-situ conservation.

[2]

- b. Give a reason: Nepal is rich in biodiversity.

[2]

- c. Give a reason: forest fires devastate biodiversity.

[2]

- d. A road is being built in your village. Give two suggestions to the construction company for making the road sustainable.

[2]

6 Long answers

[8]

Write long answers to the following questions.

- a. What are the methods of conserving biodiversity? Explain any one of them briefly. Write any two other measures that help conserve biodiversity.

[4]

- b. What are the aspects of sustainable development? Describe the relationship between them briefly, with a Venn diagram.

[4]



7 Numerical problems

Solve the following problems. Show your working.

- [illegible]

b. The world has 9,799 known species of birds, and 886 of them are found in Nepal. What percentage of the world's bird species is found in Nepal? Nepal has 0.1 % of the world's land: how many times bigger is its share of bird species? [2]

[illegible]

8 Think

Think, then answer.

9 Activity: Life in a square meter (Activity 4.1)

Mark out a quadrat of 1 m² on a patch of grassland. Count every kind of plant and animal in it without pulling them out, and fill in the table. Circle the one you found in the greatest number.

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