Exam-style questions

Chapter 4: Rivers

Question 1

(a) Fig. 4.1 shows a river and its drainage basin.

(i) What does the dashed line on Fig. 4.1 show? [1]

(ii) Explain the meanings of the terms confluence and drainage basin. [2]

(iii) Give three ways that water can leave the drainage basin. [3]

(iv) Explain how water from rainfall reaches the river. [4]

(b) The area of a small drainage basin is used to build a town. Fig. 4.2 shows a hydrograph of a small river in this area before and after urbanisation.

(i) Describe the differences in the hydrographs before and after urbanisation. [3]

(ii) Explain how urbanisation and other factors can affect hydrograph shape. [5]
(c) For a named example that you have studied, explain the advantages of living close to a large river. [7]

[Total: 25]

Question 2

(a) Fig. 4.3 shows the Colorado River in the Grand Canyon, USA.

![Fig. 4.3](image)

(i) What evidence from the photograph suggest that transportation is taking place? [1]

(ii) Explain the meanings of the terms *load* and *discharge*. [2]

(iii) Identify **three** processes of river transportation. [3]

(iv) Explain how a river can erode its bed and banks. [4]
(b) Fig. 4.4 shows a river delta in Scotland.

Fig. 4.4

(i) Describe the features of the delta shown in Fig. 4.4. [3]

(ii) Explain how a delta is formed. [5]

(c) For a named example that you have studied, describe the hazards of living close to a river and how these hazards can be managed. [7]

[Total: 25]

Question 3

Fig. 4.5 shows an area in western USA.

Fig. 4.5
Describe the physical features of the area shown in Fig. 4.5. [8]

[Total: 8]

**Question 4**

Fig. 4.6 shows landforms of part of a river valley.

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**Fig. 4.6**

(a) Which part of the river valley is shown? [1]

(b) Explain how the features shown in Fig. 4.6 have formed. [5]

(c) Suggest how the river shown in Fig. 4.6 may change in the future. [2]

[Total: 8]