1(c)	Explain why the sediment size in a river channel might vary at different locations.	5
1(c)	Explain <u>two</u> factors that affect the shape of a storm hydrograph.	5
1(c)	Suggest how the storm hydrograph for a drainage basin in a forested area would differ from that in an urban area.	5
1(c)	Explain <u>two</u> reasons why some extreme rainfall events do not result in river flooding.	4
1(c)	Explain <u>two</u> reasons for the variation of deposition along a river channel.	4
1(c)	Explain why, during a rain event, there could be more overland flow than infiltration.	5
1(c)	Explain why catchment flows change after urbanisation.	5
1(c)	Explain why channel flow may change over time.	4
1(c)	Explain why the size of sediment deposited varies along a river.	5
1(c)	Explain why the velocity needed to pick up particles varies with their size.	5
4(a)(ii)	Briefly explain the process of saltation within a river channel.	3
4(a)(ii)	Explain how the type of vegetation affects the shape of a storm hydrograph.	4
4(a)(ii)	Briefly explain how river bluffs are formed.	3
4(b)	Describe and explain how soft engineering and hard engineering can be used to prevent river floods.	8
4(b)	Explain the effects of land use change on catchment flows and catchment stores.	8
4(b)	Explain how two drainage basin characteristics can influence the shape of a storm hydrograph.	8
4(b)	Explain how water stores in a drainage basin system are affected by changes in land use.	8
4(b)	Explain how river erosion can lead to the formation of waterfalls.	8
4(b)	Explain the relationship between riffle and pool sequences in meandering river channels.	8

4(b)	Describe and explain how the landforms of a braided river channel differ from those of a meandering river channel.	8
4(b)	Explain how the shape of a storm hydrograph is influenced by precipitation type and intensity.	8
1 (b)	Explain the formation of river cliffs and point bars in a meandering river channel.	8
l(b)	Explain how a river flood can impact people.	8
(b)	Describe and explain the formation of braided river channel landforms.	8
4(b)	Describe and explain different patterns of flow within a river channel.	8
·(b)	Explain how catchment flows and stores are affected by urbanisation.	8
(b)	Explain the formation of levées and floodplains.	8
l(b)	Explain the formation of floodplains <u>and</u> river bluffs.	8
(b)	Describe and explain the formation of deltas.	8
4(c)	With the aid of examples, examine the extent to which hard engineering prevents river floods.	15
(c)	'River flooding impacts the environment more than it impacts people.'	15
	With the aid of examples, how far do you agree?	
(c)	'River flooding impacts people more than it impacts the environment.' With the aid of examples, how far do you agree?	15
(c)	With the aid of examples, examine the extent to which soft engineering prevents river floods.	15
1(c)	With the aid of examples, assess the extent to which drainage basin size and shape influence flood risk.	15
(c)	With the aid of examples, discuss the view that velocity is the most important influence on sediment deposition in a river.	15
(c)	'Urbanisation always results in an increase in channel flow.' With the aid of examples, how far do you agree?	15
(c)	'The intensity of precipitation is the most significant influence on the shape of a storm hydrograph.'	15
	With the aid of examples, how far do you agree?	
4(c)	With reference to a recent river flood event, explain the causes of the flood and evaluate attempts to reduce its impact.	15

4(c)	With the aid of examples, assess the extent to which river floods can be prevented.	15
4(c)	With the aid of examples, evaluate attempts to reduce the impact of river floods.	15
4(c)	With the aid of a case study of a recent river flood event, evaluate the impacts on both people and the environment.	15
4(c)	'The characteristics of the soil are the most significant influence on the shape of a storm hydrograph.'	15
	With the aid of examples, how far do you agree?	
4(c)	'Soft engineering is more effective than hard engineering in the prevention of river floods.'	15
	With the aid of examples, how far do you agree?	
4(c)	'Climate is the most important factor influencing flows and stores in a drainage basin system.'	15
	With the aid of examples, how far do you agree?	
4(c)	With the aid of examples, assess the extent to which it is possible to reduce the impacts of river floods.	15