8 1

8 6

)(2))(2))(1)

(1x2)(2)

(2x(2)(4)

GRADE 10 GEOGRAPHY TASK 5.2 END OF YEAR EXAMINATION PAPER 2 MEMORANDUM

QUESTION 8: FLOOD HYDROGRAPHS

Line chart -

The state of the s		
	Histogram 🗸	(2x1)
8.2	X - Ascending leg <	0000000
	Y - Descending leg -	(2x1)
8.3	Delay period 🗸	(1x1)
8.4	 The hydrograph for the urban area shows a rapid increase in the level of runoff but the hydrograph of the rural area again shows a slow increase in the level of runoff. 	470346T
	 There is a short delay time for the city while the delay time for 	

the hydrograph of the rural area is even shorter.
The urban area hydrograph shows that the river has returned
to its normal levels shortly after it peaks, but the rural area
hydrograph shows that the river has returned more slowly to its
normal levels //

[ANY ONE - A learner must differentiate between the hydrograph of the rural and urban areas]

	[ACCEL OTTICK RECEIVED ANOTHER O]
8.5	 Substandard surfaces (roads, driveways, sidewalks) cannot
	absorb rainwater, and the water flows into the stream.

absorb rainwater, and the water flows into the stream.
 Runoff is immediate, so the delay time is less.

 Heavy rainfall leads to a shorter delay period while light rainfall leads to a longer delay period.

 The slope where the river flows also determines the shape of the hydrograph.

[ANY TWO]
[ACCEPT OTHER RELEVANT ANSWERS]

More vegetation along the river causes water to infiltrate into the soil leading to lower runoff, and therefore the chances of flooding are less.

Lack of vegetation causes more runoff to occur and the chances of flooding are less.

Lack of vegetation causes more runoff to occur and the chances of flooding are much greater.

[ACCEPT OTHER RELEVANT ANSWERS]

(2x2)(4)

(15)

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