Time: 90 min. 20 points

Task 1

The public company Ski Resorts of Serbia is planning to build a ski track with accompanying contents in Avala (Fig. 1). Look at the plan below and do SWOT analysis with at least three answers.



Fig. 1

Strengths	Weaknesses						
1. Close to Belgrade	1. Height of mountain (temperature)						
2. Good slope for skiing	2. Not enough snow						
3. Good exposition (NW)	3. Destroying protected nature						
4. Good infrastructure	4. Only one short ski slope						
5. Many attractions beside	5. Problem to make enough artificial snow						
(0,5 pts for each of three right answer)	(0,5 pts for each of three right answer)						
Opportunities	Threats						
1. New jobs for locals	1. Costly						
1. INCW JOUS IOI IOCAIS							
 An increase in the number of tourists 	2. Historical importance will lose value						
	 Historical importance will lose value Deforestation/problem with clean air for Belgrade 						
2. An increase in the number of tourists	•						
 An increase in the number of tourists Cheaper winter activities 	3. Deforestation/problem with clean air for Belgrade						

Task 2

Lapse rate is the rate at which air temperature falls with increasing altitude at every 100 m. Using a lapse rate of $0.6 \degree$ C, calculate the average monthly temperatures at the top of Avala considering the data from the Belgrade Meteorological Station located in Košutnjak.

Average/month	Months											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
T°C (Košutnjak, 203 m a.s.l.)	1.1	3.0	7.3	12.7	17.3	20.3	22.3	22.5	18.2	13.1	7.3	2.3
T°C (Avala, 506 m a.s.l.)	-0.7	1.2	5.5	10.9	15.5	18.5	20.5	20.7	16.4	11.3	5.5	0.5

506 m - 203 m = 303 (about 300m); (300/100) * 0,6 = 1,8°C or -1,8°C

Task 3

Calculate the air distance between the church in Beli Potok and the top of Avala. For your calculation, use the map of Avala and its surroundings (Fig. 2; scale 1:50.000)



Calculation:

40 mm (+- 2 mm) * 50 m (scale 1:50.000) = 2000 m

(4 pts)

Task 4

Remote detection is now an indispensable method of work for every geographer. On the picture below, draw in and number the following landforms and objects:

Paleomeander of the Tisa River (2 pts);
 River island on the Tisa River (1 pts);
 the Begej River confluence into the Tisa River (1 pts) 4. the brigde that connects settlements Titel and Knićanin (1 pts);
 the Titel loess plateau (2 pts).



