

### **3NLPHO: Heuristic Optimisation: Class test 2 feedback**

The performance of the students for this class test is very good. The average mark is 81.19. There are 10 students with full marks. The overall performance is better than for Class test 1.

**Question 1:** Most of the students selected the correct answer.

**Question 2:** Most of the students selected the correct answer.

**Question 3:** Most of the students selected the correct answer.

**Question 4:** Most of the students selected the correct answer.

**Question 5a:** About 80% students selected this question, and most of them got full marks for it.

**Question 5b:** Most of the students answered this question correctly.

**Question 6a:** About 60% students selected this question. Only 5 students got full marks for question 6a. Many students could only answer that the current path to a node will not be better than previously found paths when a monotonic heuristic  $h$  is used. They did not write about the optimal efficiency of A\* for any monotonic  $h$ .

**Question 6b:** Only 60% students could answer this question correctly. The correct answer is in the lecture notes.

**Question 7a:** Most of the students selected this question. However, only a few students could answer it correctly. Although many students remarked that Simulated Annealing accepts some deterioration in the quality of solutions, most of them did not connect it to the temperature change.

**Question 7b:** Most of the students answered this question correctly. Some students did not write that both search methods work on complete solutions and/or that the parameters must be carefully chosen for both.