

CAIRO UNIVERSITY FACULTY OF COMPUTERS AND ARTIFICIAL INTELLIGENCE Quiz (C)



Term: Spring 2023

Exam Time:60 min

Examiner : Dr. Mustafa M. Shiple

Subject: Autonomous Multiagent Systems (AI 314)

Score: 10 Marks

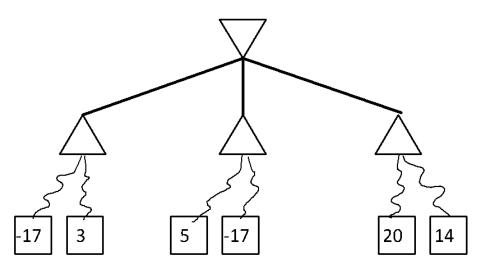
Instructions:

- Use the space provided to write your answers.
- Ask in case of doubt.

ANSWER THE FOLLOWING QUESTIONS:

Solution:

- (a) Initial Population, Fitness Function, Selection, Crossover, Mutation.
- (b) discard individuals below a given threshold
- (c) agents own choices
- (d) TO-MOVE(s).
- (e) high branching factor.
- 2. Consider the graph shown below, expand Monte Carlo search tree to the first node in the third level. clearly show your answer if the random simulation results are shown blow each node from left to right. [5 marks] $[D_c]$



[Total Marks is 10]

