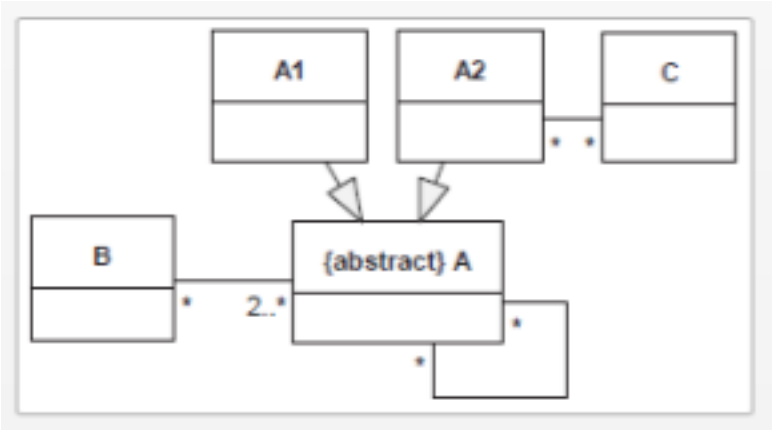
1 - Which of the following statements about the given diagram are true? (mark each answer with T true or F false, leave blank if unsure)

(a) B is part of A.
(b) The composite objects form a tree structure.
(c) A is part of B.
(d) The chains of aggregation links form a directed, acyclic graph.
(e) If an instance of A is deleted, the contained instances of B are not affected.
(f) If an instance of B is deleted, all contained instances of A are also deleted.
(g) If an instance of A is deleted, all contained instances of B are also deleted.

2 - You are given the following clipping of a UML2 class diagram. Which of the following statements are true?
(mark each answer with T true or F false, leave blank if unsure)



(a) An object of A1 can be associated with an object of B.
(b) Each object of A1 has to be an instance of A.
(c) One object of A1 may be associated with an object of A2.
(d) There exist objects of class B that are not associated with objects of class A2.

3 - Model the following situation with a UML2 class diagram:
“An order is made with exactly one waiter, one waiter can handle multiple orders.”

4 - Model the following situation with a UML2 class diagram:
“A fitness center consists of several sectors. One sector may be divided into several sectors which might as well be divided into sectors and so on.”

5 - Model the following situation with a UML2 class diagram:
“During one soccer season, multiple players participate in multiple games. Each player scores in each game a certain number of goals.”