1. (3 points) Does backward and hybrid selection always give identical models?

    (a) True
    (b) False
    (c) It depends
    (d) All of the above
    (e) None of the above

2. (3 points) A model that performs well on the training set will always perform well on the testing set.

    (a) True
    (b) False
    (c) It depends
    (d) All of the above
    (e) None of the above

3. (3 points) Which of the following models is preferred?

    - Model 1 has $R^2_{adj} = 87.7\%$
    - Model 2 has $R^2_{adj} = 82.1\%$
    - Model 3 has $R^2_{adj} = 85.2\%$

    (a) Model 1
    (b) Model 2
    (c) Model 3
    (d) Models 1 and 2
    (e) Models 1 and 3
    (f) Models 2 and 3
    (g) All of the them

4. (3 points) A classifier with high accuracy on the training set is preferred.

    (a) True
    (b) False
    (c) It depends
    (d) All of the above
    (e) None of the above