A

```
> Testmodel$bestTune
   size  decay   bag
12    3 0.0005 FALSE
> NeuralNetModel
Model Averaged Neural Network

28 samples
 3 predictor
 2 classes: 'X0', 'X1'

Pre-processing: Box-Cox transformation (3)
Resampling: Leave-One-Out Cross-Validation
Summary of sample sizes: 27, 27, 27, 27, 27, 27, ...
Resampling results:
```

B

```
  Accuracy   Kappa
  0.8571429  0.7021277

Tuning parameter 'size' was held constant at a value of 3
Tuning parameter 'decay' was held constant at a value
 of 0.0005
Tuning parameter 'bag' was held constant at a value of FALSE
> epi.tests(rev(epitable$table), conf.level = 0.95)
             Disease positive Disease negative Total
Test positive               15                1    16
Test negative                3                9    12
Total                       18               10    28
```

C

```
 Point estimates and 95 % CIs:
-------------------------------------------------------------
                                 Estimation Lower CI Upper CI
Apparent prevalence                   0.571    0.372    0.755
True prevalence                       0.643    0.441    0.814
Sensitivity                           0.833    0.586    0.964
Specificity                           0.900    0.555    0.997
Positive predictive value             0.938    0.698    0.998
Negative predictive value             0.750    0.428    0.945
Diagnstic accuracy                    0.857    0.673    0.960
Likelihood ratio of a positive test   8.333    1.283   54.114
Likelihood ratio of a negative test   0.185    0.065    0.531
-------------------------------------------------------------
>
> plot(roc.obj, print.auc=T)
```

D