Started on	Wednesday, 22 September 2021, 9:42 AM
State	Finished
Completed on	Wednesday, 22 September 2021, 9:52 AM
Time taken	10 mins 1 sec
Marks	6.00/12.00
Grade	**5.00** out of 10.00 (**50**%)

Question **1**

Correct

Mark 1.00 out of 1.00

RCNN object detection requires which tasks?

- ○ a.   Both of them✔
- ○ b.   Classification
- ○ c.   Bounding box regression

Your answer is correct.

The correct answer is:
Both of them

Question **2**

Incorrect

Mark 0.00 out of 1.00

The region proposal step in RCNN use ROI pooling with selective search?

- ○ a.   True✖
- ○ b.   False

Your answer is incorrect.

The correct answer is:
False

Question 3

Incorrect

Mark 0.00 out of 1.00

Fast RCNN uses selective search to find 2k proposals, How are these proposals later classified?

     a.   We pass each region through the CNN and classify them ✖

     b.   We find there mapped regions inside the feature map extracted by the CNN.

     c.   We send them through the region proposal network

Your answer is incorrect.

The correct answer is:

We find there mapped regions inside the feature map extracted by the CNN.

Question 4

Correct

Mark 1.00 out of 1.00

ROI pooling must always recieve the same size of input just like max pooling but it uses a faster algorithm to do the calculations

Select one:

  True

  False ✔

The correct answer is 'False'.

Question **5**

Incorrect

Mark 0.00 out of 1.00

ROI pooling takes the max of a region in the input and maps it to a single pixel in the output similar to max pooling.

Roi pooling also has a fixed size kernel that passes through the image as max-pooling does.

Select one:
- ◉ True ✖
- ○ False

The correct answer is 'False'.

Question **6**

Correct

Mark 1.00 out of 1.00

Faster RCNN still uses the selective search algorithm but doesn't send each region through the CNN.

Select one:
- ○ True
- ◉ False ✔

The correct answer is 'False'.

Question **7**

Correct

Mark 1.00 out of 1.00

Faster RCNN provides the regions of interest by using

- ◉ a. Deep Learning ✔
- ○ b. SVM classifier
- ○ c. Selective Search
- ○ d. Greedy algorithm

Your answer is correct.

The correct answer is:
Deep Learning

Question 8

Incorrect

Mark 0.00 out of 1.00

RPN finds the location of objects by sliding k anchors on

- ○ a.   The input image ✖
- ○ b.   Selective search
- ○ c.   The conv feature map

Your answer is incorrect.

The correct answer is:

The conv feature map

Question 9

Correct

Mark 1.00 out of 1.00

Yolo also follows the pattern of proposing the regions of interest and then classifying them.

Select one:
- ○ True
- ◉ False ✔

The correct answer is 'False'.

Question 10

Correct

Mark 1.00 out of 1.00

does the generator part of the gans update its weights based on a loss influenced by the training data

Select one:
- ○ True
- ◉ False ✔

The correct answer is 'False'.

Question **11**

Incorrect

Mark 0.00 out of 1.00

Early stopping is very useful for training neural netowrks in general and especially GANs

Select one:
- ○ True ✖
- ○ False

The correct answer is 'False'.

Question **12**

Incorrect

Mark 0.00 out of 1.00

How to set the learning rates for the GAN in order to generate more diverse and realistic images

- ○ a.   Same values for both to get a more balanced training and fight againt non convergence ✖
- ○ b.   gen lr is higher than disc becuase the generation is harder than discrimination
- ○ c.   disc lr is higher than gen lr rate to fight against mode collapse

Your answer is incorrect.

The correct answer is:
disc lr is higher than gen lr rate to fight against mode collapse