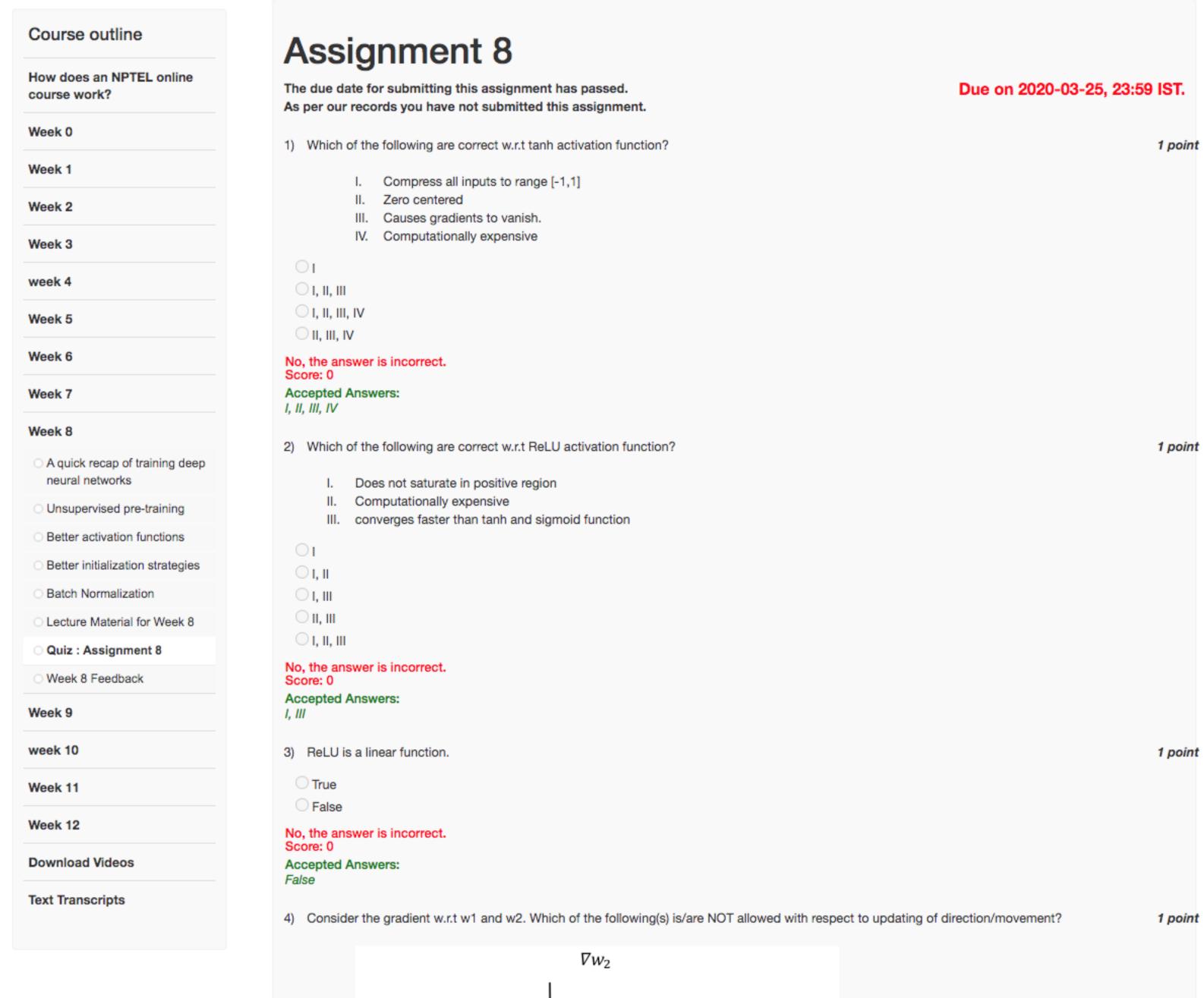
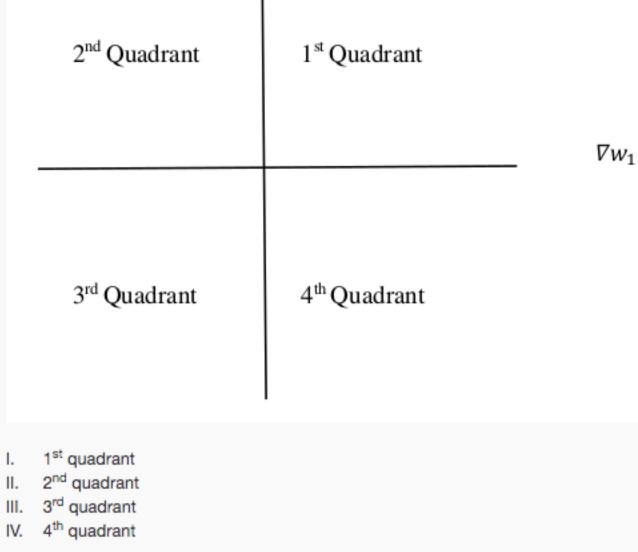
Unit 10 - Week 8

NPTEL » Deep Learning - Part 1





- I, II, III ○ II, IV
- No, the answer is incorrect. Score: 0

 \bigcirc I, III

 \bigcirc I, II

II, IV

Accepted Answers:

5) Which of the following are correct in terms of sigmoid neurons?

- Saturated neurons cause gradients to vanish. Sigmoids are zero centered III. Sigmoids are computationally expensive.
- I, III ◯ I, II, & III

 \bigcirc I

○ I, II

No, the answer is incorrect. Score: 0 Accepted Answers:

I, III 6) Consider the following Parametric Relu function,

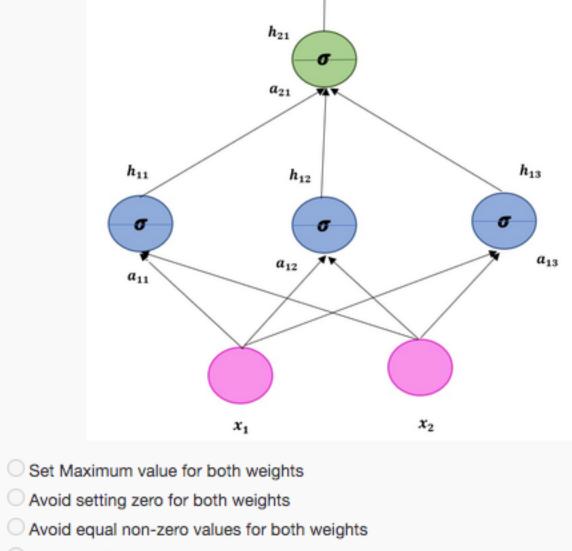
 $f(x) = max(\alpha x, x)$ Here the parameter a gets updated during backpropagation.

False No, the answer is incorrect. Score: 0

○ True

Accepted Answers:

7) Which of the following is CORRECT regarding initialisation of weights for the given network to avoid Symmetry breaking problem?



- Both B & C
- No, the answer is incorrect. Score: 0
- Accepted Answers: Both B & C

Pre-activation at every layer were unit gaussian

Pre-activation at layer h2 were unit gaussian

8) The Learning process would be hard if across the mini-batches the distribution of h3 keeps changing. Identify a possible solution.

Pre-activation at no layer was unit gaussian Pre-activation at layer h4 were unit gaussian

No, the answer is incorrect. Score: 0

Pre-activation at every layer were unit gaussian 9) Which of the following statements are True?

Accepted Answers:

 Pre-training is more robust than random initialisation Pre-training leads to better weight initialisation

O I only Il only Both

- None No, the answer is incorrect.
- Score: 0 Accepted Answers:

 \bigcirc 0

Score: 0

0 or 1

Both 10) For which value(s) of $\sigma(x)$, a sigmoid neuron is said to have saturated?

01 0 or 1 O -1

Accepted Answers:

No, the answer is incorrect.

1 point

1 point

1 point

1 point

1 point

1 point