Started	on Thursday, 12 June 2025, 4:53 PM
St	ate Finished
Completed	on Thursday, 12 June 2025, 5:00 PM
Time tal	ken 6 mins 45 secs
Ma	rks 12.00/15.00
Gra	de 80.00 out of 100.00
Question 1 Complete Mark 1.00 out of 1.00	
	N, the hidden state h _t is updated as:
a. h _t = tan	
b. h _t = ReL	
\circ c. $h_t = \sigma(W)$	
d. h _t =tanh	$(W x_t + U h_{t-1} + b)$
Question 2	
Complete	
Mark 1.00 out of 1.00	
a. Stores lob. Stores h	es gradients
Question 3	
Complete	
Mark 1.00 out of 1.00	
a. Output	
b. Input ga	te
c. Memory	gate
	ate

Question 4	
Complete	
Mark 1.00 out of 1.00	

In sequence-to-sequence models, what is the role of the encoder?

- a. Update output vocabulary
- Ob. Translate output sequence
- o. Predict next token
- od. Encode input sequence into a fixed representation

Question 5

Complete

Mark 1.00 out of 1.00

What does teacher forcing refer to during RNN training?

- a. Resetting hidden states between batches
- b. Pre-training the encoder before decoder
- c. Feeding the ground truth output at time t-1 to predict time t
- O d. Using the model's own output as input

Question 6

Complete

Mark 1.00 out of 1.00

What is gradient clipping in the context of training RNNs?

- a. Reducing batch size to avoid overfitting
- b. Limiting updates to only the final layer
- oc. Applying dropout to avoid vanishing gradients
- od. Restricting the magnitude of gradients to prevent exploding gradients

Question 7

Complete

Mark 1.00 out of 1.00

What is the main reason RNNs struggle with learning long-term dependencies?

- igcup a. Lack of activation functions
- b. Vanishing gradients
- c. Insufficient parameters
- d. Gradient explosion

Question 8
Complete
Mark 0.00 out of 1.00
What is the primary advantage of using bidirectional RNNs?
a. Access to both past and future context
○ b. Works with images
○ c. Reduced computation time
 d. Replaces the need for attention mechanisms
Question 9
Complete
Mark 0.00 out of 1.00
What technique is commonly used during inference in seq2seq models to improve generation quality?
○ a. Adam optimizer
b. Batch normalization
○ c. Beam search
O d. Dropout
Question 10
Question 10 Complete
Complete
Complete
Complete Mark 1.00 out of 1.00 Which loss function is most commonly used in training sequence-to-sequence models with RNNs for classification?
Complete Mark 1.00 out of 1.00 Which loss function is most commonly used in training sequence-to-sequence models with RNNs for classification? a. Hinge Loss
Complete Mark 1.00 out of 1.00 Which loss function is most commonly used in training sequence-to-sequence models with RNNs for classification? a. Hinge Loss b. Mean Squared Error
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Question 1	2
Complete	
Mark 1.00 c	out of 1.00
Which o	of the following statements about GRU is incorrect?
a.	GRU has a separate memory cell c_t like LSTM
O b.	GRU has fewer parameters than LSTM
O c.	GRU is generally faster to train than LSTM
O d.	GRU combines the forget and input gates into a single update gate
Question 1	13
Complete	
Mark 1.00 c	out of 1.00
Which o	one is not a typical application of RNNs?
a.	Object detection
b.	Sentiment analysis
О с.	Machine translation
O a.	Speech recognition
Question 1	14
Complete	
Mark 1.00 c	out of 1.00
Which I	RNN variant is specifically designed to solve the vanishing gradient problem?
О а.	Vanilla RNN
b.	GRU
О с.	Bidirectional RNN
	LSTM
Question 1	15
Complete	
Mark 0.00 c	out of 1.00
Why are	e RNNs not inherently parallelizable across time steps?
a.	They use convolutional filters
O b.	Each output depends on previous output
C.	They have attention layers
O d.	