## TA-1-NLP-



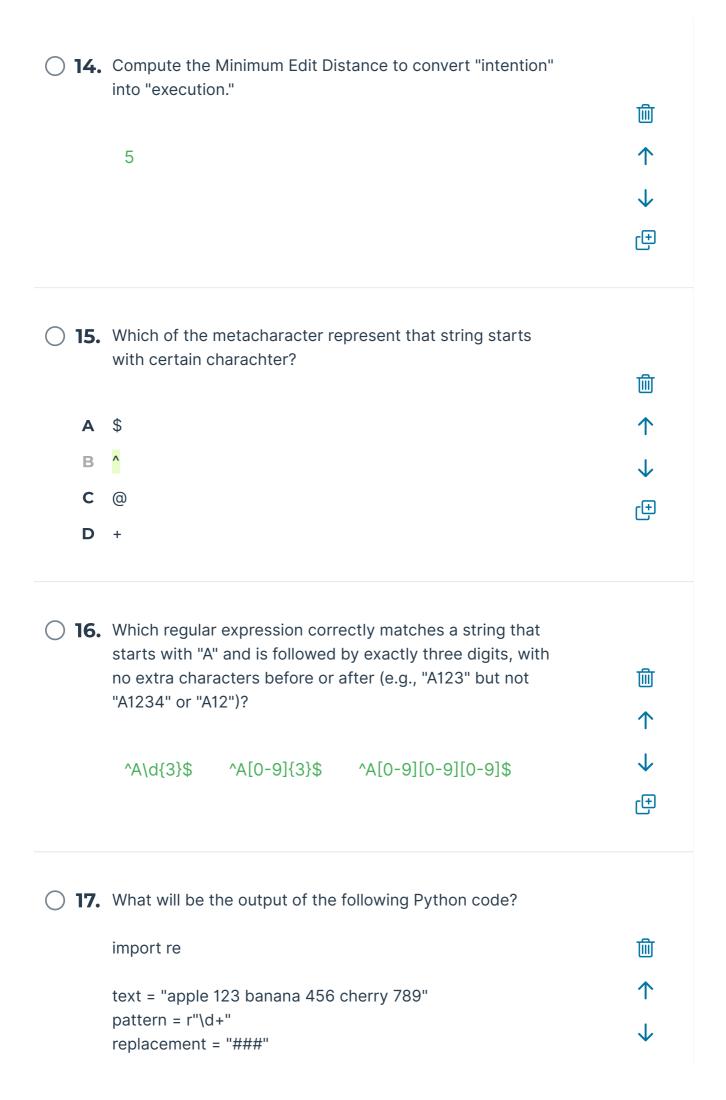
## Save and Exit

A	lign Quiz to Standard	Share
<ul><li>1.</li><li>A</li><li>B</li><li>C</li><li>D</li></ul>	Which of the Following is not a challenge in Natural Language Processing?  Contextual Understanding  Pragmatics  High RAM Requirment  Multilingualism	
<ul><li>2.</li><li>A</li><li>B</li><li>C</li><li>D</li></ul>	is the process of predicting the next word in a sequence given a set of preceding words.  Language Processing  Language Modeling  Language Understanding  All of these	
<ul><li>З.</li><li>А</li><li>В</li></ul>	What is Part-of-Speech (POS) tagging?  Assigning word meanings  Assigning grammatical categories to words	<b>□</b>

	С	Translating words into another language	r⊕ ↓
	D	Removing stop words	بي
0	4.	What is a major limitation of grammar-based language modeling?	ŵ
	Α	It does not consider syntax	<b>^</b>
	В	It cannot handle ambiguous words	<b>\</b>
	С	It requires extensive linguistic rules	· (±)
	D	It is based on neural networks	6
0	5.	What does a Regular Expression (RegEx) primarily do?	
	A	Defines a search pattern for text	Ŵ
	В	Translates text into another language	<b>^</b>
	C	Compiles a program	<b>\</b>
	D	Encodes images	ΓĖ
0	6.	Which tagging method uses a combination of rules and probabilistic approaches?	圃
	A	Rule-based tagging	<b>^</b>
	В	Stochastic tagging	'
	С	Transformation-based learning	<b>V</b>
	D	None of the above	<b>(+)</b>

$\bigcirc$	<b>7.</b>	What is the Markov assumption?	
			圃
	A	The probability of a future state depends only on the present state	<b>↑</b>
	В	The probability of a future state depends on the entire history	$\downarrow$
	С	The probability of a future state is random	ΓĖ
	D	The probability of a future state is based on predefined rules	
$\bigcirc$	8.	Which NLP task benefits from using Finite-State	
		Transducers (FSTs)?	ı
	A	Morphological analysis	<b>^</b>
	В	Syntax parsing	↓
	С	Sentiment analysis	·
	D	Image captioning	<b>(</b>
	0	Which of the following is an example of a unigram	
O	9.	Which of the following is an example of a unigram probability?	
			Ŵ
	A	P(the   dog)	<b>↑</b>
	В	P(walk   will the)	$\downarrow$
	С	P(dog)	Œ.
	D	P(dog   the, brown)	
$\bigcirc$	10.	Which of the following is NOT a component of an HMM?	
			圃

E	Emission probabilities	<b>V</b>
C	Hidden states	<b>(+</b> )
	Decision trees	
O 11		
	meaning or part of speech.	
		Ш
	True	<b>^</b>
		$\downarrow$
		<del>(+</del>
O 12	Which of the following is/are spelling error detection tool?	
		<del>.</del>
A	Levenshtein Distance	
E	Noisy Channel Model	<b>↑</b>
c	: Hunspell	$\downarrow$
	All of these	r⊕
O 13	Which of the following is not an operation of Minimum edit	
	distance algorithm?	<b>.</b>
A	Insertion	<b>^</b>
E	B Deletion	<b>↓</b>
C	Substitution	<del>(+</del>
	Searching	٦



	<pre>new_text = re.sub(pattern, replacement, text) print(new_text)</pre>	<b>(+</b> )
	apple ### banana ### cherry ###	
<b>18.</b>	Which smoothing technique in N-gram models "hallucinates" additional training data?	<del>M</del>
Α	Good-Turing	<b>↑</b>
В	Backoff	$\downarrow$
С	Kneser-Ney	<del>(+</del>
D	Laplace (Add-One)	
<ul><li>О 19.</li><li>А</li><li>В</li><li>С</li><li>D</li></ul>	What is the primary purpose of the Viterbi algorithm in HMM?  Estimate emission probabilities  Find the most probable state sequence  Train the HMM model  Convert HMM to a neural network	⊕ ↑ ↓ ⊕
<b>20.</b>	Explain Backoff in N-Grams.	↑

<b>21.</b>	Maximum Entropy Models (MEMM) are discriminative models that emphasize conditional probabilities, providing a more targeted approach to predictions.  True	↑ → ⊕
<b>22.</b>	Write a Python program that takes following sentence as input and tokenizes it into words.  text = "Natural Language Processing is amazing!"	1 ↑ ↓
<b>23.</b>	Write a Python function that takes a list of words and applies the Porter Stemmer to reduce them to their root form.  words = ["running", "flies", "better", "easily", "studies"]	1 ↑ ↓
A	Which of the following statements is true about lemmatization in NLP?  Lemmatization reduces words to their base form using predefined rules without considering context.	<b>□</b>
В	Lemmatization converts words into their root form based on	

	meaning and dictionary lookups.	<b>(+</b> )
С	Lemmatization always produces the same output as stemming.	
D	Lemmatization removes stopwords from text.	
<b>25.</b>	What is the goal of coreference resolution in NLP?	
A	Identifying whether a word is a noun or verb.	Ŵ
В	Resolving multiple spellings of the same word.	<b>↑</b>
С	Determining which words or phrases refer to which entity in a text.	<b>↓</b>
D	Removing redundant words from a sentence.	
<b>26.</b>	Write your full name. Firstname Lastname	1 ↑ → +
Add Blank Question		
Multiple Choice True / False Short Answer		
Al Assisted 🐤		
	Generate Questions Copy-Paste Questions	