	P.V.P Side	lhartha Ins	stitute o	of Technol	ogy			Signature o		Marks (	Obtained:
Department of Computer Science and Engineering Invigilator w											
Course: B.Tech Year: IV Semester: I Objective: I											
Regulation: PVP20 Maximum Marks:10Marks Session: F.N											
A.	.Y:2023-24	<b>Date: 20</b>	-11-202	3 Dur	ation	: 20 ı	min				
	bject Code: 20C	S4701A	Subj	ect Name:	Deep	) Lea	rning				
Regist	tered Number:			1	Name	:					
A	Answer all the Questions. Each Question carries 1/2 Mark										<u>0M</u>
S.No			<u> </u>	estion					СО	Level	Answer
1.	What is the primary purpose of convolutional layers in a CNN?a) Activationb) Poolingc) Featured) Fully connected										
	a) Activation	Feature	d) Fu	CO1	L2						
		extraction layers									
2.	•	layer in a CNN is responsible for reducing the spatial									
	dimensions of t	<b>^</b>							CO1	L2	
	a) Convolution	,	tivation		U	·	illy co	onnected	001		
	layer										
3.	What is the pur								-		
	/	a) Normalize b) Introduce			c) Reduce the d) Summ				CO1	L2	
	the input data	rity	dimensior	•	t	he feat	ures				
		of the data									
4.	In a CNN, what	In a CNN, what does the term "stride" refer to?									
	a) Learning b) The size c) The step size for sliding d) Number						Number	CO1	L2		
	rate c										
5.	What is the fund	ction of the	nnected lay	ed layers at the end of a CNN?							
	a) Feature	b) Reduce c) Global d) Classification							CO1	L2	
	extraction										
6.	Which layer is	typically used to address overfitting in a CNN?									
	a) Convolutional b) Pooling c) Dropout d) Fully							CO1	L2		
	layer										
7.	What is the put	rpose of dat	ta augm	entation in	traini	ing a	CNN	?			
		c) Improve d) Decrease model size									
	model						601	1.2			
	modeltraining timegeneralizationcomplexityby introducing							CO1	L2		
		variations in the									
	training data										
8.	What is the advantage of using pre-trained CNN models for new										
	tasks?										
	a) Faster b) Smaller mode		r mode	/ <b>1</b> /			l) Redu		CO1	L2	
	training	size		accuracy with			umber	r of			
							less data layers				
9.	What is the role				iction	in th	e outp	ut layer			
	of a CNN for multi-class classification?								001		
	a) Introduce	b) Norma		c) Reduce		l) Enha		C01	L2		
	non-linearity	the output probabilities		dimensionality			eature				
10	In on I CTM			ogo of the f	xtracti	IUII					
10.	In an LSIM ce	In an LSTM cell, what is the purpose of the forget gate?									
	a) It decides	b) It decid	des	c) It decides d) I			t decid	es the	1		
	which	the outpu	t of	which inp			put to the cell.		CO1	L2	
	information to the cell. information				on	-					
	throw away	-									
	-	cell state.									

r	C (1 11	[										
	from the cell											
11.	state.								INIa for long			
11.	Which of the following is a potential issue with using RNNs for long sequences?											
	sequences? a) The vanishing b) The exploding c) Both a and d) Neither a							CO1	L2			
	,	gradient problem gradient problem b nor b						,				
12.	Which component of a sequence-to-sequence model is responsible for											
14.	transforming the input sequence into a fixed-size context vector?										L2	
	a) Encoder b) Decoder c) Attention d) Embedding							CO1				
			Decou	-	,			,	U	l		
13.	What is the a	mechanismlayerWhat is the advantage of using LSTM or GRU over traditional RNNs?										
10.	a) LSTMs b) LSTMs and c) LSTMs and d) LSTMs and											
	and GRU	,		can				/	Us are faster			
	are less pron	_					n	terms of	CO1	L2		
	to overfitting	-					t	rain	ning			
		-	endenc	ies	<b>•</b>				C			
		mor	e effec	tively								
14.	Which gate i	n an LS	STM is	respons	sible fo	or decidi	ng w	hat	new			
	information to store in the cell state?a) Input gateb) Forget gatec) Output gated) Update gate									CO1	L2	
									1 0			
15.	What is the	main pu	irpose	of the h	idden	state in a	i recu	irre	nt neural			
	network?											
		b) Out	put	c) Cap		d) It is used for			CO1	L2		
	U	of the			-			pdating the	-			
	memory	networ	k	in the	-		-	parameters of the				
1(	XVI	sequence network espectrogram commonly used for in the context of speech										
16.			gram co	ommoni	ly used	l for in tr	ie coi	ntex	at of speech		L2	
	recognition?		h) 7	Covt to		a) Spa	alzar		d) Noiso	CO1		
	a) Feature extractionb) Text-to-c) Speakerd) Noisefrom audio signalsspeech synthesisidentificationreduction											
17.	Which activ	0										
1/1	convolutiona				monity	used in t	ine n	iuuc	ch hayers of	CO1	L2	
	a) Sigmoid								1.2			
18.	, 0			augme	/		puter					
	What is the purpose of data augmentation in computer vision tasks?a) Tob) To increasec) To artificiallyd) To decrease											
	reduce the								CO1	L2		
	size of the computational diversity of the capability of the						ility of the					
	dataset. complexity. training dataset. model.							l.				
19.	What is the p	orimary	advant	age of u	ising c	onvoluti	onal	neu	ral networks			
	in computer vision tasks?											
	a) Better	,				Parameter d		d) Improved		CO1	L2	
	handling of	cap	oture lo	ng-	U			interpretability		cor	1.4	
	sequential	ter	m penden			slation		of features.				
	data.	invariance.										
20.	What type of neural network architecture is commonly used						ed for speech					
	recognition tasks?							<b>66</b>	~ -			
	a) Recurrent						Transformer	CO1	L2			
	Neural Neural Network Term Memory											
	Network											