SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC – Autonomous Institution

III B.Tech II Semester I MID Examinations, FEBRUARY – 2025 DEEP LEARNING

AIML

Time: 20 Mins	Max. Marks:20		Date: 24- 02.2025	
Roll No:	Sign of the Student:		Marks Obtained:	
Name:	Sign of invigil	Sign of invigilator:		Sign of Valuator:
CO	CO 1	CO 2	CO 3	Marks Obtained:
UNIT	1	II	III	Total Marks

1. What is a random forest?		[]
a) A single decision tree	b) A collection of decision trees		
c) A type of neural network	d) A type of machine learning algorithm		
2. What is gradient boosting?]]
a) A method for training neural n	etworks		
b) A method for building decision	trees sequentially		
c) A type of machine learning algorithm d) A type of robot		robot	
3. What is accuracy in machine learning?]]
a) The number of correct predict	ons		
b) The number of incorrect predi	ctions		
c) The ratio of correct predictions	to total predictions		
d) The ratio of incorrect prediction	ns to total predictions		
4. What is precision in machine learning?]
a) The ratio of true positives to a	l positive predictions		
b) The ratio of true negatives to	all negative predictions		
c) The ratio of true positives to al	l actual positives		
d) The ratio of true negatives to a	III actual negatives		
5. What is recall in machine learning?]]
a) The ratio of true positives to a	l positive predictions		
b) The ratio of true negatives to a	III negative predictions		
c) The ratio of true positives to al	l actual positives		
d) The ratio of true negatives to	all actual negatives		

6. What is an F1-score?]
a) The average of precision and recall			
b) The sum of precision and recall			
c) The product of precision and recall			
d) The difference between precision and	recall		
7. What is a confusion matrix?		[]
a) A table that shows the model's predicti	ons compared to actual results		
b) A graph that shows the model's accura	су		
c) A chart that shows the model's precision	on and recall		
d) A diagram that shows the model's F1-s	score		
8. What is overfitting?		[]
a) When the model performs well on train	ning data but poorly on new data		
b) When the model performs poorly on be	oth training and new data		
c) When the model is too simple			
d) When the model is not trained enough			
9. What is underfitting?		[]
a) When the model performs well on trai	ning data but poorly on new data		
b) When the model performs poorly on b	ooth training and new data		
c) When the model is too complex			
d) When the model is trained for too long			
10. How can overfitting be prevented?		[]
a) By using more training data	b) By using a simpler model		
c) By using regularization techniques	d) All of the above		
11. What is Deep Reinforcement Learning (DRL)?		[]
a) A combination of Deep Learning and Re	einforcement Learning		
b) A type of Deep Learning network			
c) A type of Machine Learning algorithm	d) A type of robot		

12. What are Spiking Neural Networks (SNNs) inspired by?		[]
a) The human brain's neurons that fire in sp	ikes		
b) Artificial neural networks			
c) Mathematical formulas	d) Computer programs		
13. What is a key feature of a Feedforward	Neural Network (FNN)?	[]
a) Information flows in one direction, from i	nput to output		
b) It can handle sequential data			
c) It uses attention mechanisms	d) It generates new data		
14. What is a key feature of a Convolutiona	ıl Neural Network (CNN)?	[]
a) It is specialized for processing images			
b) It can handle sequential data			
c) It uses attention mechanisms			
d) It generates new data			
15. What is a key feature of a Recurrent Ne	ural Network (RNN)?	[]
a) It can handle sequential data			
b) It is specialized for processing images			
c) It uses attention mechanisms			
d) It generates new data			
16. What is a key feature of a Restricted Bo	oltzmann Machine (RBM)?	[]
a) It has connections only between the inpu	ut and hidden layers		
b) It can handle sequential data			
c) It uses attention mechanisms			
d) It generates new data			

17. Which of the following is NOT a commo	n application of Deep Learning in co	mput	er
vision?		[]
a) Object detection and recognition			
b) Image classification			
c) Language translation			
d) Image segmentation			
18. Which of the following is NOT a commo language processing (NLP)?	on application of Deep Learning in na	tural []
a) Language translation			
b) Sentiment analysis			
c) Image recognition			
d) Speech recognition			
19. Which of the following is NOT a commo reinforcement learning?	on application of Deep Learning in	[]
a) Game playing	b) Robotics		
c) Natural language processing	d) Control systems		
20. What is the significance of Deep Learnin	ng in the field of Artificial Intelligence	e? []
a) It has led to major advancements in vario capabilities	us fields, pushing the boundaries of A	Al .	
b) It is a simple and easy-to-understand tech	nnology		
c) It has limited applications and is not wide	ly used		
d) It is a passing trend with no real impact			