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Pre-Board Artificial Intelligence

Time- 120 mins

M.M-50

Class: - X Section A

Note:- For objective type questions, write the complete Answer on your answer sheet, not just a,b,c,d.

Q1. Visual comm	unication among th	e people are	dependent	on	·	(1)
(a) Signs, syn	nbols and pictures	(b) Text mes	sages	(c) Posture	(d) Body languag	ge
Q2. Which of the	following is the pro	cess in which	the receiv	er interprets a	and understands the me	ssage? (1)
(a) Decoding	(b) Encoding	(c)	Feedback		(d) None of these	
Q3	is not the quality of	self-confiden	t people.			(1)
a)Depend	lent b) Hard \	Norking	c)Positive	Attitude	d) Commitment	
Q4.High expectat	tions from self can le	eave with chro	onic anxiet	y and stress, t	hus leading to	stress.
(1)						
Physical	b) Emotior	nal (c) Mental	d) F	- inancial	
Q5. Which ancier body and mind?	=	a series of po	stures and	breathing exe	ercises practiced to achie	eve control of
a)Medita	` '	Exercise	c) Liste	ening music	d) Yoga	
Q6. The Recycle I	Bin in Windows stor	es deleted file	es for how	long?	, ,	(1)
a) Permanently d	leletes instantly	b) S	Stores temp	oorarily until e	emptied	
c) Stores for 30 o	days only	d)	None of th	e above		
Q7. What does a	n operating system	do?				(1)
a) Manages hard	ware and software	resources	b) Helps to	create docu	ments	
c) Provides antivi			d) Manag	es internet sp	eed	
Q8. Entrepreneu						(1)
a) Uncalculated r	•	_		d) Ra	ndom risk	
Q9. The money u	sed to start a busin		_			(1)
a) Loan k	o) Capital	c) Income		d) Profit		
	e following practice			•		(1)
a) Overuse of chemical fertilizers b) Deforestation c) Rainwater harvesting d) Excessive industrialization						
	main purpose of le					(1)
•	_			_	grow the economy in a h	ealthy way c)
·	industrial waste	•	-	bs in environr	ment-friendly fields	
	the term carbon foc	•				(1)
•	ken in by plants fron	•				
c) The total gree	nhouse gases peopl	e release thro	ough their a	activities	d) The oxygen that trees	s produce

Q13. In Statistical Data, what is the primary function of the system in relation to data?						
a)Generating large datasets	a)Generating large datasets b) Analyzing data to extract insights					
c) Converting data into images	d) Distributing data	across networks				
Q14. What is the main goal of Computer V	ision projects?		(1)			
a)Translating audio data into visual	descriptions b))Converting digital data i	nto analogue signals			
c)Teaching machines to understand	d textual information					
d)Converting digital visual data into	o computer-readable lang	guage				
Q15. What is the primary focus of NLP?			(1)			
a)Analyzing computer languages l	o)Interacting between co	mputers and humans us	ing artificial language			
c)Dealing with the interaction betv	veen computers and hum	nans using natural langua	age			
d)Enhancing human-to-human con	nmunication					
Q16. Which of the following is an example	of supervised learning?		(1)			
a) Clustering animals into groups	b) Spam email classifi					
c) Discovering shopping patterns	d) Grouping n	ews articles				
Q17. Which of the following is a classificat	•		(1)			
	ooks by genre c) Est	amating house prices				
d) Predicting whether a customer v			(1)			
Q18. What is the main use of the p		a) To convert image form	(1)			
a) To enlarge the image b) To reduc	te processing complexity	c) to convert image for	nat d) 10 Sharpen			
image	معمد المعند المعند عليه معمد م		(1)			
Q19. What does resolution in an in	· ,. ,	v Haight in nivels	(1)			
a) Number of bits b) Number	rorcolors c) width	× Height in pixels	d) Color range of			
pixels	imaga alassification?		(1)			
Q20. What is the core idea behind	_	Convert to gravesale d\ A	(1)			
a) Locate object boundaries b) Assi resolution	igh category to image c) (Lonvert to grayscale d) N	neasure image			
	a CNNs in Computor Visio	າກວ	(1)			
Q21. What is the main goal of using a) Text formatting b) Image er		detection in visuals	(1)			
, , , ,			•			
Q22. Which of the following is used for fin	(c) Bag of words	_				
(a) Stemming (b) Lemmatisation	. , .	(d) None of the abov				
Q23. For the whole corpus is divide the whole corpus gets reduced to sentence		intence is taken as a um	(1)			
(a) Text Regulation (b) Sentence Segi		nization (d) Ste	emming			
Q24. This real life application of NLP is use	• •	` '	•			
redundancy from multiple sources and ma	eximising the diversity of	content obtained. Which	n is this application?			
			(1)			
(a) Chatbot (b) Virtual Assistant	(c) Sentiment Analysis	(d) Automatic Su				
Q25. Which of the following is the type of	data used by NLP applica	ations?	(1)			
	c) Graphical data	(d) Text and Speech				
•		·				

Section B

Q26. What are the various methods of communication? Describe them in one sentence each with examples. (2)

ays by which					
(2)					
(2)					
(2)					
(2)					
(2)					
(2)					
(2)					
Q34. Identify the type of model (classification, regression, clustering, association model) and justify the					
(3)					
Case Study 1: A bank wants to predict whether a loan applicant will "default" or "non-default" on their loan					
payments. They have a dataset containing information such as income, credit score, loan amount, and					
Case Study 2: A real estate agency wants to predict the selling price of houses based on various features such as					
size, location, number of bedrooms, and bathrooms. They have a dataset containing historical sales data.					
Case Study 3: A marketing company wants to segment its customer base into distinct groups based on					
purchasing behavior for targeted marketing campaigns. They have a dataset containing information such as					
Case Study 4: A grocery store wants to identify associations between different products purchased by customers					
to understand which products are commonly bought together. They have a transaction dataset containing					
(3)					
(3)					

End Of Paper