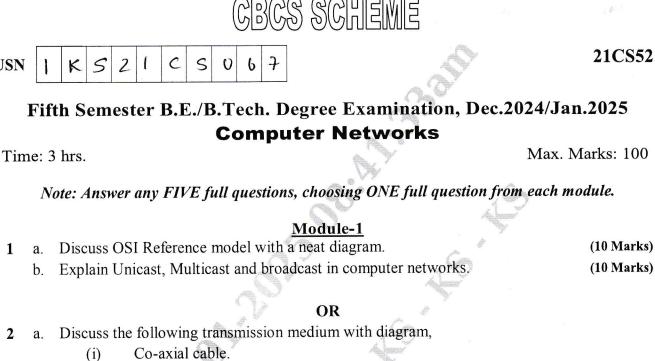
		CBCS SCHEME	
USN			21CD5
	Fif	th Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan	.2025
		<b>Object Oriented Modelling and Design</b>	
Tim	ie: 3		Iarks: 100
		ote: Answer any FIVE full questions, choosing ONE full question from each me	odule.
		Module-1	
1	a.	Compare the following terms with appropriate example :	
-	u.	i) Aggregation versus association	
		ii) Aggregation versus composition	(10 Marks
	b.	Define Association End. List and explain the properties of associated end.	(10 Mark
		OR	
2	a.	Explain the following terms with example i) Metadata ii) Rectification.	(10 Mark
	b.	Define Event. Explain different kinds of event with example.	(10 Mark
		Module-2	
3	a.	List and explain the rules for developing state charts.	(10 Mark
	b.	Define SSD. What are steps to develop SSD based on activity diagram?	(10 Mark
		OR	(10.3.5.)
4	a. h	Define use case diagram, explain notations used in usecase diagram with example Explain the process of developing ORDERITEM statechart with the help of state	e. (10 Mark diagram
	b.	Explain the process of developing OKDERTTEW statechart with the help of state	(10 Mark
		Module-3	
5	a.	List and explain stages of software development processes.	(10 Mark
	b.	Explain the system concept for an automated Teller machine with the help	of problem
		statement.	(10 Mark
		OR	
6	a.	List and explain the criteria's to eliminate unnecessary and incurrent attributes.	(10 Mark
	b.	List and explain the steps to construct a domain state model.	(10 Mark
_		Module-4	(40.35.4
7	а. Ъ	Explain the primary responsibility of view layer. Explain Encapsulation information hiding and cohesion.	(10 Mark (10 Mark
	b.		
0	21	OR Explain the steps to be involved in developing first cut sequence diagram.	(10 Moult
8	a. b.	Explain the process of designing with communication diagrams.	(10 Mark (10 Mark
	0.		(10 1)1011
9	0	Explain the applicability, structure benefits and liabilities of abstract factory patter	arn
9	a.	Explain the applicability, structure benefits and habilities of abstract factory part	(10 Mark
	b.	Explain process of how design pattern solve design problem.	(10 Mark
		OR	
10		Write short notes on :	
	a.	Structural pattern	
	b.	Creational pattern	
	c.	Adopter design pattern	() Mort
	d.	Proxy pattern	(20 Mark
		****	

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

•



(ii)Fibre optic cable. (10 Marks) Explain the design issues in computer networks. (10 Marks)

#### Module-2

		<u>wodule-2</u>							
3	a.	Explain error detecting codes and obtain the CRC code for the frame given	polynomial						
		1101011111 using the generator $G(x) = x^4 + x + 1$ .							
	b.	Explain framing with Byte Count and Flag bits with bit stuffing.	(10 Marks)						
		OR AL							
4	a.	Illustrate the Hamming code method with an example.	(10 Marks)						
	b.	Explain the following with examples:							
		(i) Binary convolution code.							
		(ii) Reed Solomen code.	(10 Marks)						
		Children 19							
		Module-3							
5	a.	Discuss Store and Forward packet switching.	(10 Marks)						
	b.	Explain the services provided by Network layer to Transport layer.	(10 Marks)						
	А								
		OR							
6	a.	Discuss shortest path algorithm.	(10 Marks)						
	b.	Explain the approaches to congestion control in Network layer.	(10 Marks)						
		Module-4							
7	a.	Explain Berkeley Sockets in detail.	(10 Marks)						
	b.	Explain socket programming with an example.	(10 Marks)						

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

b.

# SCHEME

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### OR

		SR AY	
8	a.	Explain TCP protocol with TCP segment header.	(10 Marks)
	b.	Explain TCP connection establishment and TCP connection rele	ease with code snippet.
			(10 Marks)
		Module-5	
9	a.	Explain the process communication in the Application layer.	(10 Marks)
	b.	Discuss the Transport services provided by the Internet.	(10 Marks)

## OR

		OR A	
10	a.	Explain the web and HTTP with Request response behaviour.	(10 Marks)
	b.	Discuss the Electronic Mail in the Internet.	(10 Marks)
	0.		()
		****	
		C G G	
		Y CN	
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		6 59 64	
		C 15 19	
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		17	
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		2 of 2	

	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	odule.
1	a.	Explain in detail the characteristics of database approach.	(08 Marks)
	b.	Define the following terms and also give example : i) Database ii) DBMS	(04 Marks)
	c.	List and explain the advantages of using DBMS Approach.	(08 Marks)
2	a.	OR Explain cardinality ratio and participation constraints along with an example.	(06 Marks)
	b.	With a neat diagram explain the three schema architecture.	(06 Marks)
	c.	Draw an ER diagram for library database by considering at least 5 entities.	(08 Marks)
3	a.	Module-2 Explain in detail characteristics of Relations.	(06 Marks)
	b.	Discuss different types of update operations on relational database. Also give an	example. (06 Marks)
	c.	Write a note on Natural join and division operation.	(08 Marks)
		OR	
4	a.	Consider the 2 tables. Show the result of the following :	
	4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
		(i) $R_1 \bowtie R_2$ (ii) $R_1 \beth R_2$	
		(i) $R_1 \bowtie R_2$ $(R_1 \cdot a_1 = R_2 \cdot b_1)$ (ii) $R_1 \beth R_2$ $(R_1 \cdot a_1 = R_2 \cdot b_1)$ (iii) $R_1 \beth R_2$ $(R_1 \cdot a_1 = R_2 \cdot b_1)$	
		(iii) $R_1 \longrightarrow R_2$ ( $R_1 \cdot a_1 = P_2 \cdot b_1$ ) (iv) $R_1 \longrightarrow R_2$ ( $R_1 \cdot a_1 = R_2 \cdot b_1$ ) ( $R_1 \cdot a_1 = R_2 \cdot b_1$ )	
		$(R_1, a_1 = R_2, b_1)$ $(R_1, a_1 = R_2, b_1)$	(08 Marks)

b. With an example explain steps of ER to Relational Mapping algorithm.

(08 Marks) (12 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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**Database Management Systems** 

CBCS SCHEME

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025

Max. Marks: 100

21CS53

### Module-3

			21CS53
			210355
		Module-3	
5	, a	For the following Database schema.	
		Employee (Fname, Minit, Lname, SSN, Bdate, Address, Salary, SuperSSN, DN	0)
		Department(DName, Dno, Mgr SSN, Mgr Startdate)	
		Dept_Locations(Dno, Dlocation)	
		Project(PName, Prj_no, Plocation, Dnum)	
		Works_on( <u>ESSN</u> , <u>Prj_no</u> , Hours)	
		Dependent( <u>ESSN</u> , <u>DependentName</u> , Sex, Bdate, Relationship)	
		Write SQL Queries for the following :	
		(i) Find sum_of_salaries of all employees who work in Dept No 10, average sal	aries of all
		employees who work in Dept No 10.	
		(ii) List all employees who do not have any dependent.	
		(iii) For each project, retrieve the project number and the number of employees we that project.	vho work on
		<ul><li>(iv) Make list of all project numbers for projects that involve an employee whos</li></ul>	
		is 'Kumar'.	
	b.		(08 Marks)
		specified in SQL during table creation with suitable example.	
	c.	Explain view in SQL, with suitable example.	(06 Marks) (06 Marks)
			(00 Marks)
		OR	
6	a.	Explain stored procedures in SQL with example.	(06 Marks)
	b.	How triggers are defined in SQL? Explain with an example.	(06 Marks)
	c.	Write a note on : (i) Cursor (ii) Assertions	(08 Marks)
7	a.	List and explain the informal Decision is 1 list	
,	b.	List and explain the informal Design guidelines for relation schemas. Define the following :	(08 Marks)
	0.		
	c.	(i) Functional dependency (ii) Key (iii) Superkey (iv) Prime attribute For the given schema, discuss the 3 main techniques to achieve first normal form.	(06 Marks)
		DName DNO Dingr-SSN Dlocation	
			(06 Marks)
		OR	
8	a.	Explain in detail 2 <sup>nd</sup> Normal form and 3 <sup>rd</sup> Normal form along with example.	(00 34 1 )
	b.	Write an algorithm for determining $X^+$ , the closure of X under F. Give an example.	(08 Marks)
			(06 Marks)
	c.	Write a note on 4 <sup>th</sup> Normal form.	(06 Marks)
		Module-5	(
9	a.	Define Transaction. Discuss ACID properties.	
	b.	With neat diagram explain transition diagram of a transaction.	(06 Marks)
	c.	Explain the Lost Update problem and Temporary update problem with respect to	(06 Marks)
		transaction execution.	(08 Marks)
		· Can	(00 Marks)
10	a.	Briefly discuss 2 phase locking to 1	
10	u. h	Briefly discuss 2-phase locking techniques for concurrency control.	(10 Marks)

- b. Write a note on : i) Deadlock prevention protocols ii) Basic Timestamp ordering algorithm (10 Marks) \* \* \*
  - 2 of 2

\* \*

		CBCS SCHEME	
USN			21CS54
	Fift	th Semester B.E./B.Tech. Degree Examination, Dec.2024/Ja	n.2025
		Artificial Intelligence and Machine Learning	J
Tim	ne: 3		Marks: 100
	$N_{i}$	ote: Answer any FIVE full questions, choosing ONE full question from each r	nodule.
		Module-1	
1	a.	What is AI? Explain the terms:	
		<ul><li>(i) Acting humanly</li><li>(ii) Thinking rationally</li></ul>	(12 Marks)
	b.	What is problem solving agent? Formulate a simple problem solving agent.	(08 Marks)
	υ.		
		OR	
2	a.	Explain different types of problems.	(06 Marks)
	b.	Explain well defined problem.	(08 Marks)
	c.	What is 8 puzzle problem? Discuss.	(06 Marks)
		Module-2	(04 Marks)
3	a.	List and define the criteria used to evaluate search strategies.	(12 Marks)
	b.	Explain BFS and DFS search strategies.	(04 Marks)
	c.	What are the need for machine learning?	(01120110)
		OR	
4	a.	Give a detail explanation on types of machine learning.	(08 Marks)
	b.		
		(i) Hypothesis testing	
		(ii) P-value	
		(iii) Confidence Intervals	
		(iv) Z-test	(10 Marks)
		<ul> <li>(v) t – test and paired t- test</li> <li>What do you mean by bivariate data and multivariate data?</li> </ul>	(02 Marks)
	c.	what do you mean by bivariate data and montvulue duta.	
	A	Module-3	
5	a.	Explain different types of learning.	(05 Marks)
•	b.	Explain concept learning with example.	(05 Marks)
	с.	Define bias and variance.	(02 Marks)
	d.	Differentiate instance based learning and model based learning.	(08 Marks)
		Ca	
		OR Winderstein for the same	(06 Marks)
6	a.	Explain Nearest Neighbor Learning. Write the algorithm for the same.	
	b.	Consider the student performance training dataset of 8 data instances shown which describes the performance of individual students in a course and their (	CGPA obtained
	5	in the previous semesters. The independent attributes are CGPA, Assessme	nt and Project
		The target variable is 'Result' which is a discrete valued variable that tal	kes two values
		'Pass' or 'Fail'. Based on the performance of a student, classify whether a st	udent will pass

in the previous semesters. The independent attributes are CGPA, Assessment and Project. The target variable is 'Result' which is a discrete valued variable that takes two values 'Pass' or 'Fail'. Based on the performance of a student, classify whether a student will pass or fail in that course.

#### 21CS54

			(A)	¥ <sup>2</sup>	_
1. No.	CGPA	Assessment	Project Submitted	Result	
1	9.2	85	8	Pass	
2	8	80	7	Pass	
3	8.5	81	8	Pass	
4	6	45	5	Fail	1
5	6.5	50	4	Fail	
6	8.2	72 🗸	7	Pass 🐗	× *
7	5.8	38	5	Fail	
8	8.9	91	9	Pass	
	T 11 O		Dit		-

#### Table.Q6(b) Training Dataset

#### (08 Marks)

c. Explain Locally Weighted Regression and solve the following problem. Consider the following Table.Q6(c) with four instances and apply locally weighted regression.

	SL. No.	X = Salary (in Lakhs)	Y = Expenditure (in thousands)
	1	5	25
~	2	1	5
A	3	2	7
	4	1	8
	e.	Table	Q6(c)

#### (06 Marks)

#### Module-4

7 a. Using the decision tree, asses a student's performance during his course of study and predict whether a student will get a job offer or not in his final year of the course. The training data set T consists of 10 data instances with attributes such as 'CGPA', 'Interactiveness', 'Practical Knowledge' and 'Communication Skills' as shown in Table.Q7(a). The target class attribute is the 'Job offer'.

		14			Actual Constants	
	SL. No.	CGPA	Interactiveness	Practical	Communication Skills	Job Offer
				Knowledge	4	
	1	≥9	Yes	Very good	Good	Yes
	2	≥ 8	No	Good	Moderate	Yes
	3	≥9	No	Average	Poor	No
	4	< 8	No	Average	Good	No
	5	≥ 8	Yes	Good	Moderate	Yes
	6	≥9	Yes	Good	Moderate	Yes
1000	7	< 8	Yes	Good	Poor	No
	8	≥9	No	Very good	Good	Yes
	9	≥8	Yes 🔨	Good	Good	Yes
	10	≥ 8	Yes 🥒	Average	Good	Yes
			Table	O7(a)		(12

#### Table.Q7(a)

(12 Marks)

b. Define Bayes theorem. Explain the classification using Bayes model. Write an expression for MAP hypothesis and ML hypothesis. (08 Marks)

OR

8 a. Asses a student performance using Naïve Bayes algorithm with the data set given in Table.Q7(a). Predict whether a student gets a job offer or not in his final year of the course.
 (08 Marks)

b. Construct a regression tree using the following Table.Q8(b) which consists of 10 data instances and 3 attributes 'Assessment', 'Assignment' and 'Project'. The target attribute is 'Result' which is a continuous attribute.

				part of the second seco
SL. No.	Assessment	Assignment	Project	Result (%)
1	Good	Yes	Yes	95
2	Average	Yes	No	70
3	Good	No	Yes	75
4	Poor	No	No	45
5	Good	Yes	Yes	98
6	Average	No	Yes	80
7	Good	No	No	75
8	Poor	Yes 🔨	Yes	65
9	Average	No	No	58
10	Good	Yes	Yes	89
		Table O8(b)		

(12 Marks)

(06 Marks)

(08 Marks)

(08 Marks)

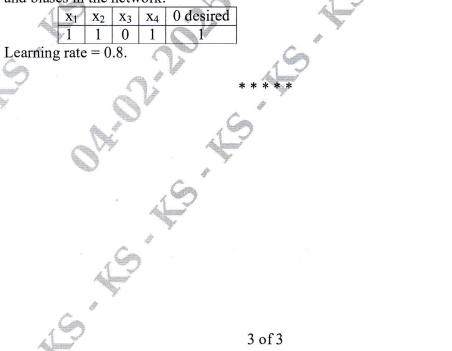
(06 Marks)

#### Module-5

- 9 a. Explain the simple model of Artificial Neuron.
  - b. Explain the types of Artificial Neural Network.
    - c. Explain the partitional clustering algorithm. List the advantages and disadvantages. How to choose the value of K? (06 Marks)

OR

- **10** a. Explain clustering. List the applications of clustering.
  - b. Write an algorithm for learning in a multilayer perceptron.
  - c. Consider learning in a multi-layer perceptron. The given MLP consists of an input layer, one hidden layer and an output layer. The input layer has 4 neurons, the hidden layer has 2 neurons and the output layer has a single neuron. Train the MLP by updating the weights and biases in the network.



(06 Marks)



## Fifth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 **Research Methodology and Intellectual Property Rights**

#### Time: 3 hrs.

1

Max. Marks: 100

(06 Marks)

(06 Marks)

(06 Marks)

(06 Marks)

Note: Answer any FIVE full questions, choosing ONE full question from each module.

#### Module-1

Give various definitions of research explaining its meaning and scope. Explain the objective a. (08 Marks) and motivation in Engineering research. Describe the steps involved in research process with neat diagram. (06 Marks) b. What is ethics in Engineering research? Why it is important. (06 Marks) C.

#### OR

- What is research problem? Define the main issues which should receive the attention of the 2 a. research in formulating the research problem. (08 Marks)
  - Discuss in detail various types of research. (06 Marks) b. (06 Marks)
  - Describe different types of research misconduct. C.

#### Module-2

- Discuss the importance of critical literature review and its uses in planning innovation 3 a. research. (06 Marks)
  - Explain the concept of knowledge flow though citation. How collaborations certainly impact b. (08 Marks) citation counts? Explain.
  - Write short notes on : C.
    - i) Google and Google scholar
    - ii) Acknowledgment and Attributions

#### OR

- Analyze the following terms which do not fulfill the actual goal of citations and 4 a. i) Spurious citations ii) Biased citations iii) Self citations acknowledgements. iv) Coercive citations. (08 Marks)
  - What are the things author should acknowledge? b.
  - Elaborate on the following : C.
    - i) Technical reading
    - ii) Critical and creative reading.

#### **Module-3**

- What are Intellectual Property Rights? Explain the necessity of it. (06 Marks) a. Differentiate between invention and Innovation. What is a Patent? What are the criteria of b. patentability? (08 Marks)
  - Enumerate the procedure for application preparation filing and grant of patents. (06 Marks) C.

#### OR

- List and explain in detail about various types of Intellectual property rights. (08 Marks) 6 a. (06 Marks)
  - Explain in detail about the infringement of patents.
  - What types of invention are not patentable in India? C.

5

b.

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#### Module-4

7	a. b.	What is Copyright? Explain classes, criteria and ownership of copyright. Discuss about the copyright ownership issues.	(08 Marks) (06 Marks)
	C.	Describe the process involved in the registration of a trademark.	(06 Marks)
0		OR	
8	a. h	Enumerate the procedure for registration of copyright.	(08 Marks)
	b.	Explain about the Trademark and rights from trademarks registration.	(06 Marks)
	C.	Explain about types of Trademarks registered in India.	(06 Marks)
0		How can inductive be desired by Module-5	
9	a. h	How can industrial designs be protected?	(06 Marks)
	b.	What is a geographical indication? Explain the following with respect to GI.	
		i) Ownership and right granted to the GI holders	
	0	ii) Registered GI in India	(08 Marks)
	c.	Explain the following :	
		i) Famous Industrial Designs	
		ii) Generic GI and Homonymous GI	(06 Marks)
		OR	
10	a.	Explain the classification of Industrial Designs.	(06 Marks)
	b.	Explain the procedure for GI registration.	(08 Marks)
	c.	Explain about the enforcement of IPR in India.	(06 Marks) (06 Marks)
			(00 Marks)
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••••	Enpland the elassification of madstrial Designs.			(UU Marks)
b.	Explain the procedure for GI registration.			(08 Marks)
c.	Explain about the enforcement of IPR in India.	-2×		(06 Marks)
			Can	

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USN					J.	Question Pap	er Version :	A

## Fifth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Environmental Studies

Time: 1 hrs.]

[Max. Marks: 50

### INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the fifty questions, each question carries one mark.
- 2. Use only Black ball point pen for writing / darkening the circles.
- 3. For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.
- 5. Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.

1.	Environment means	
	a) A beautiful landscape	b) Industrial production
	c) Sum total of all condition	d) None of these
2.	The term ecosystem was introduced by	
	a) Hackel b) Odum	c) Tansley 🥒 d) All of these
3.	The ecological pyramid that is always upr	ight.
	a) Pyramid of energy	b) Pyramid of biomass
	c) Pyramid of number	d) None of these
4.	5 <sup>th</sup> June is observed as	A construction of the second sec
	a) World Forest Day	b) World Environment Day
	c) World Wildlife Day	d) World Population Day
5.	MoEF means	
	a) Ministry of Forest and Energy	b) Ministry of Environment and Forests
	c) Ministry of Fuel and Energy	d) Management of Environment and Forestry
6.	In Aquatic Ecosystem Phytoplankton can	be considered as a
	a) Consumer	b) Producer
	c) Macro consumer	d) Micro consumer
	, 67	
7.	has Maximum Genetic Div	
	a) Potato b) Tea	c) Mango d) Teak
		1 of 4

## 21CIV57

8.	Chipko movement was started to conserve a) Forests b) Grasslands	c) Deserts	d) Soil
9.	The sequence of eating and being eaten in a a) Food chain c) Hydrological cycle	n eco-system is called b) Carbon cycle d) Anthroposystem	i. Con
10.	Which of the following is a biotic compone a) Fungi b) Solar Light	nt of an eco system? c) Temperature	d) Humidity
11.	Hydroelectric Power plant is a) Non-renewable source of energy c) Non-conventional source of energy	b) Conventional sourc d) Continuous source	
12.	Which isotope of uranium is used for the nu a) U-234 b) U-235	c) U-238	d) U-233
13.	A solar cell is an electrical device that conv by the a) Photovoltaic effect c) Atmospheric effect	b) Chemical effect d) Physical effect	directly into electricity
14.	Bhopal gas tragedy occurred in the year a) 1986 b) 1990	c) 1984	d) 1991
15.	Wind is beneficial resource of energy as it ( a) Pollution b) Echo	does not cause c) Noise	d) Sound
16.	Which of the following is not a renewable s a) Wind energy c) Solar energy	source of energy? b) Tidal wave energy d) Fossil fuels	
17.	Nuclear Power Plant in Karnataka is locate a) Bhadravathi b) Kaiga	d at c) Sandur	d) Raichur
18.	In Hydro Power Plants, power is generated a) Hot Springs b) Wind	by c) Water	d) Solar Energy
19.	Which is not natural disaster? a) Cyclone c) Earthquake	b) Nuclear explosion d) Volcano	
20.	Radiation is a health hazard because it leada) Typhoidb) Cancer	s to c) Colour blindness	d) Pneumonia
21.	Water pollution is caused by a) Sewage c) Discharge from forms	<ul><li>b) Industrial effluents</li><li>d) All of these</li></ul>	
22.	Which of the following are non-biodegrada a) Plastics c) Detergents	uble? b) Domestic sewage d) Both a and c	
	2	2 of 4	

## 21CIV57

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				S	21CIV
23.	Chlorine can be used a) To kill pathogenic r c) To clear the turbidit		1	To increase the pH All of these	
24.	What does E-waste sta a) Environment waste c) Equipment waste	and for?		Electronic waste None of these	19
25.	The noise is measured a) Decibels	in b) Joules	c)	PPM	d) NTU
26.	Maximum dissolved o a) Fish	xygen is required by b) Bacteria	c)	Vegetables	d) All of these
27.	Colorless, odorless an a) Sulphur dioxide c) Carbon dioxide	d non corrosive air po	b)	tant is Carbon monoxide Ozone	
28.	Which of the followin a) $CO_2$	g is not a greenhouse b) CH4		? CFC	d) H <sub>2</sub>
29.	For the survival of fish a) 3 PPM	h in a river stream, the b) 4 PPM	e m c)	inimum do is preser 5 PPM	ibed d) 10 PPM
30.	Water pollution can b a) Releasing sewage t c) Treating wastewate	o ocean		) Releasing effluent ) None of these	to wasteland
31.	Global warming could a) Climate c) Melting of glaciers	l effect	10000	) Increase in sea leve ) All of these	el .
32.	The primary cause of a) Carbon dioxide c) Carbon monoxide	acid rain around the v	b	ld is ) Sulphur dioxide ) Ozone	
33.	Acid rain effects on a) Materials	b) Plants	c	) Soil	d) All of these
34.	Ozone layer is presen a) Troposphere c) Mesosphere	țin <sub>1</sub> 9'		) Stratosphere ) Thermosphere	
35.	Ozone layer absorbs a) UV rays	b) Infrared rays	c	) Cosmic rays	d) CO
36.	The Fluoride concent a) 3 mg/L	ration for prevention ( b) 2 mg/L		lental caries is ) 1 mg/L	d) 4 mg/L
37.	D.D.T is a a) Fungicide	b) Pesticide	с	) Fertilizer	d) Disinfectant
	5 CO	3	6 of	4	

## 21CIV57

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<ul> <li>39. World ozone day is being celebrated on a) September 5<sup>th</sup> b) October 15<sup>th</sup> c) September 16<sup>th</sup> d) September 11<sup>th</sup></li> <li>40. The effect of acid rain a) Reduces soil fertility c) Skin cancer d) Causing respiratory problems</li> <li>41. Which among the following is not related to GIS software? a) CAD b) ARC GIS c) RC VIEW d) STAAD PRO</li> <li>42. GIS stands for a) Geographic Information System b) Generic Information System c) Geological Information System d) Geographic Information System c) Geological Information System d) Geographic Information System d) Geographic Information System d) Geographic Information System component? a) Keyboard b) Arc GIS c) Autocad d) Digitalization</li> <li>43. Among the following can be expressed as an example of hardware component? a) Keyboard b) Arc GIS c) Autocad d) Digitalization</li> <li>44. The basic requirement of any sensor system is a) Spatial resolution b) Spectral Resolution c) Radiometric Resolution d) All of these</li> <li>45. IS 14000 standards are for the a) Quality Management System b) Environmental Management System c) Administration d) Supply Chain</li> <li>46. What is the main objective of secondary treatment of sewage plants? a) To remove the suspended particles b) To remove the contaminants c) To remove the contaminants c) To remove the GOD d) To remove the contaminants c) To remove the contaminants c) To remove the GOD d) To remove the Comparise material</li> <li>47. Which of the following is the un agency on health? a) WHO b) FAO c) UNESCO d) WTO</li> <li>48. What is the full form of NGO's? a) Non Governance Organizations c) No Governance Organizations d) Null Governmental Organizations</li> <li>49. When did green peace founded? a) 1967 c) 1968 d) 1971</li> <li>50. When did the Bombay Natural History Society (BNHS) founded? a) 1857 b) 1868 c) 1883 d) 1897</li> </ul>	38.	When trees are cut, amount of oxygen a) decreases b) increases	c) both a and b	d) remains same
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