## CHOS SCHEME

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## Fifth Semester B.E. Degree Examination, June/July 2024 **Object Oriented Modelling and Design**

Max. Marks: 100 Time: 3 hrs. Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Explain Association End concept with example. Describe the properties of Associated end. 1 (10 Marks) Describe multiple inheritance and its types with examples. (10 Marks) OR Describe the following: 2 i) Aggregation Vs Association Aggregation Vs Composition (10 Marks) b. Define Event. Explain different kinds of events with suitable example. (06 Marks) Explain the following terms with example. i) Metadata ii) Reification. (04 Marks) Module-2 List and explain the rules of developing the statecharts (10 Marks) Define use case diagram, explain the notations used in usecase diagram with example. (10 Marks) OR Define SSD. Explain briefly the steps to develop SSD based on activity diagram. (10 Marks) Write the simplified activity of diagram of telephone order scenario. (10 Marks) Module-3 Describe the different stages of software development process. (10 Marks) 5 List and explain the steps to construct a domain state model. (10 Marks) OR Explain the following: 6 i) Waterfall and iterative development life cycle ii) Data dictionaries for an ATM (10 Marks) List and explain the different criteria's to eliminate unnecessary and incorrect attributes. (10 Marks) Module-4 Describe the primary responsibility of view layer and data access layer. (10 Marks) Explain the steps to be followed in developing first cut sequence diagram. (10 Marks) OR

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.

8

design.

diagram for lookup item availability.

Describe the process of designing with communication diagram. Draw a communication

Explain three layer design for RMO. Give the most common issues found in the three layer

(10 Marks)

## Module-5

9 a. Explain how to use design pattern.

(10 Marks)

b. Explain the following:

i) How to select a design pattern

ii) Creational and structural pattern.

(10 Marks)

## OR

10 a. Describe the applicability structures, benefits and liabilities of abstract factory system.

(10 Marks)

b. Write note on:

i) Prototype and Singleton

ii) Design class notation and symbols.

## GBGS SCHEME

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## Fifth Semester B.E. Degree Examination, June/July 2024 Computer Networks

Time: 3 hrs. Max. Marks: 100

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

## Module-1

- 1 a. With a neat sketch, explain two types of wide area network in use. (04 Marks)
  - b. Explain the functionalities of OSI reference model layers with neat diagram. (08 Marks)
  - c. Explain the following:
    - i) Direct sequence spread spectrum and frequency hopping spread spectrum.
    - ii) Fiber optics and copper wire.

(08 Marks)

#### OR

- 2 a. List out 6 different types of services provided under connection-oriented and connection less services. (04 Marks)
  - b. Explain TCP/IP protocol suite of computer network with a neat diagram. Also represent the protocols used in each layer of the model. (08 Marks)
  - c. What is path loss? Explain different types of frequency bands in radio transmission with necessary diagram. (08 Marks)

## Module-2

- 3 a. Write the steps for computing CRC. Find the codeword for the message frame 1101011111 and generator polynomial  $G(x) = x^4 + x + 1$  using CRC. (08 Marks)
  - b. With a neat diagram, demonstrate the working of GO-BACK-N protocol. (08 Marks)
  - c. Describe pure ALOHA and slotted ALOHA.

(04 Marks)

## OR

- 4 a. Explain error detection and correction using hamming code with 7 databits and 4 check bits.
  (08 Marks)
  - b. Explain the working of stop and wait protocol for a noiseless channel. (08 Marks)
  - c. With a neat diagram, explain the working of CSMA/CD protocol. (04 Marks)

## Module-3

- 5 a. Explain the routing process within datagram network and virtual circuit network with a neat diagram. (08 Marks)
  - b. Explain distance vector routing algorithm with an example.

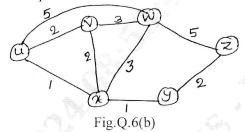
(08 Marks)

c. Bring out the Leaky Bucket mechanism for traffic policing.

(04 Marks)

OR

- 6 a. Explain different types of packet scheduling algorithm with neat diagrams. (08 Marks)
  - b. Write the Dijkstra's algorithm and apply it to the following graph (Refer Fig.Q.6(b)) with source node 'u' to find shortest path to all other nodes.



(08 Marks)

c. Describe two major differences between the ECN and RED method of congestion avoidance. (04 Marks)

## Module-4

- 7 a. List and explain the primitives for a simple transport service. (06 Marks)
  - b. Explain connection establishment between server and the client using TCP. (08 Marks)
  - c. With general format, explain the various fields of UDP and explain how checksum is calculated. (06 Marks)

#### OR

8 a. With a neat diagram, explain each field of TCP header.

(08 Marks)

b. Write a note on Max-Min fairness.

- (06 Marks)
- c. Explain the steps in making a remote procedure call with a neat diagram.
- (06 Marks)

## Module-5

- 9 a. What are the 2 different architectures used in modern network application? Explain each architecture with neat diagram. (08 Marks)
  - b. Explain the HTTP request message format in detail.

(08 Marks)

c. Explain the use of cookie in web application.

(04 Marks)

### OR

- 10 a. Illustrate the socket communication between two processes that communicate over the internet with a suitable diagram. (04 Marks)
  - b. With a neat diagram, explain how SMTP can be used for transmitting mails from sender to receiver. (08 Marks)
  - c. Explain the various services provided by DNS and problems associated with centralized design. (08 Marks)

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## 21CS53

## Fifth Semester B.E. Degree Examination, June/July 2024 **Database Management Systems**

Time: 3 hrs. Max. Marks: 100

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

## Module-1

a. Define DBMS. Explain main characteristics of database approach.

(08 Marks)

b. Explain advantages of Database Management system.

(08 Marks)

c. Define data model. Explain the different types of user friendly interfaces.

(04 Marks)

### OR

2 a. Define Entity and attributes. Explain all the types of attributes along with notations.

(10 Marks)

b. Explain Cardinality ratios for binary relationship and write a ER diagram for movie database (minimum 4 entities). (10 Marks)

## Module-2

3 a. Explain relational model constraints.

(06 Marks)

- b. Explain different types of update operations and show an example of a violation of the referential and entity integrity in each of update operation. (08 Marks)
- c. Define the following with example:
  - (i) Primary key
  - (ii) Foreign key
  - (iii) Super key
  - (iv) Candidate key

(06 Marks)

### OR

- 4 a. Briefly explain the ER to relational mapping algorithm with suitable example for each step.
  (10 Marks)
  - b. Explain following relational algebra operators with example:
    - (i) Select
    - (ii) Project
    - (iii) Intersection
    - (iv) Cartesian product

(10 Marks)

### Module-3

5 a. Explain insert, delete, update, alter and drop statement in SQL.

(10 Marks)

b. Consider the following schema for order database:

SALESMAN (Salesman Id, Name, City, Commision)

CUSTOMER (Customer Id, Cust name, City, Grade, Salesman id)

ORDERS (Ord\_No, Purchase\_amt, Ord\_Date, Customer\_id, Salesman\_id)

Write SQL queries to,

- (i) Find the name and numbers of all salesman who had more than due customer.
- (ii) List all the salesman and indicates those who have and don't have customer in their cities (use union).
- (iii) Create that view finds the salesman who has the customers with the higher order.

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6	a.	Write a note on for following:
		(i) Assertion and action trigger. (ii) Views in SOL (10 Marks)
	1_	(ii) Views in SQL.
	b.	Explain stored procedures in a 2-
	C.	Briefly explain JDBC classes. (05 Marks)
		Module-4
7	a.	Explain informal guidelines to determine the quality of relation scheme design with
		example. (08 Marks)
	b.	Explain Armstrong inference rule. (06 Marks)
	c.	Discuss insertion and deletion anamalies. (06 Marks)
		OR
8	a.	Define normal form. Explain 2NF, 3NF and BCNF with suitable example. (10 Marks)
	b.	Consider 2 sets of FDs, F and G, $F = \{A \rightarrow B, B \rightarrow C, AC \rightarrow D\}$ and
		$G = \{A \rightarrow B, B \rightarrow C, A \rightarrow D\}$ Are F and G equivalent? (05 Marks)
	c.	Consider set of FD's be $E: \{B \to A, D \to A, AB \to D\}$ , find the minimal cover of E.
	С.	(05 Marks)
		Module-5
9	a.	Why concurrency control needed. Explain types of problems that may occur when 2 simple
	и.	translation run concurrently. (10 Marks)
	b.	Explain why recovery needed and Acid properties. (10 Marks)
	٠.	
		OR
10	a.	Briefly discuss Two-phase locking techniques for concurrency control. (08 Marks)
	b.	Explain ARIES recovery algorithm with example. (08 Marks)
	c.	Write a note on Deedlock prevention protocol. (04 Marks)

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21CS54

## Fifth Semester B.E. Degree Examination, June/July 2024 Artificial Intelligence and Machine Learning

Time: 3 hrs.

Max. Marks: 100

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

## Module-1

1 a. Define the terms:

i) Artificial Intelligence ii) Turing Test iii) Total Turing Test Summarize the capabilities required by computer to pass the turing test and total turing test.
(10 Marks)

b. Outline the following phases with respect to history of AI:

i) The birth of Artificial Intelligence

ii) AI Winter

(10 Marks)

#### OR

2 a. Explain Simple-Problem-Solving-Agent with an algorithm. Also state the assumptions done in the process of agent design. (10 Marks)

b. Illustrate the component of well-defined problems by formulating "Vacuum World" Toy problem. (10 Marks)

Module-2

a. Infer the conditions for optimality of A\* algorithm. Given the following graph with initial state S, Identify the Goal state and solve for A\* algorithm. [Refer Fig.Q3(a)]

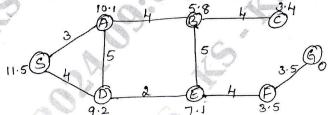


Fig.Q3(a)

(10 Marks)

 b. Define Machine Learning. Explain in detail the different types of machine learning with example. (10 Marks)

#### OR

a. What is dispersion of Data? Explain the different measures of data dispersion.

b. Explain PCA. Write the PCA algorithm.

(10 Marks) (05 Marks)

c. Consider the following data of ML course registration. There are 50 boys and 50 girls in the class. Apply Chi-square test and find out whether any difference exists between boys and girls for course registration. [Assume: P = 0.0412]

Gender	Registered	Not Registered	Total
Boys	35	15	50
Girls	25	25	50
Total	60	40	100

(05 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.

## Module-3

a. Generate version space for the given dataset using candidate elimination algorithm.

CGPA	Interactiveness	Practical	Communication	Logical	Interest	Job
		Knowledge	skills	Thinking		Offer
≥ 9	Yes	Excellent	Good	Fast	Yes	Yes
> 9	Yes	Good	Good	Fast	Yes	Yes
> 8	No	Good	Good	Fast	No	No
≥ 9	Yes	Good	Good	Slow	No	Yes

(10 Marks)

b. Demonstrate the steps of Learning System Design.

(05 Marks)

c. Differentiate between Instance based learning and model-based learning.

(05 Marks)

### OR

6 a. List the different validation techniques of Regression methods. Explain any 4 techniques in detail. (10 Marks)

b. Consider the following dataset:

Collored the			The second secon	
S.No.	CGPA	Assessment	Project	Result
	reactions:	1 Albert	Submitted	2007
1	9.2	85	8	Pass
2	8	80	7	Pass
3	8.5	81	8	Pass
4	6	45	5	Fail
5	6.5	50	4 • 🗸	Fail
6	8.2	72	7	Pass
7	5.8	38	5	Fail
8	8.9	91	9	Pass

Assuming K = 3, Classify the new instance (6.1, 40, 5) using KNN algorithm.

(10 Marks)

#### Module-4

- 7 a. Illustrate the structure of Decision Tree, with its advantages and disadvantages. (10 Marks)
  - b. Define the following terms:
    - i) Entropy
- ii) Information gain

iii) GINI Index

iv) Pre-pruning

v) Post-pruning

(05 Marks) (05 Marks)

c. Define Regression Tree. Write the algorithm for constructing Regression Trees.

#### OR

- 8 a. State Bayes Theorem. Define MAP hypothesis and maximum likelihood. (06 Marks)
  - b. Consider a boy who has a volleyball tournament on the next day, but he feels sick today. It is unusual that there is only a 40% chance he would fall sick since he is a healthy boy. Now, find the probability of the boy participating in the tournament. The boy is very much interested in volley ball, so there is 90% probability that he would participate and 20% that he will fall sick given that he participates in the tournament. (04 Marks)

c. Classify the given test data using Naïve Bayes algorithm. Apply Laplace correction if zero probability problem occurs.

Test data : [Assessment = Average, Assignment = 'Yes', Project = No and seminar = Good] Given dataset :

S.No.	Assessment	Assignment	Project	Seminar	Result
1	Good	Yes	Yes	Good	Pass
2	Average	Yes	No	Poor	Fail
3	Good	No	Yes	Good	Pass
4	Average	No	No	Poor	Fail
5	Average	No	Yes	Good	Pass
6	Good	No	No	Poor	Pass
7	Average	Yes	Yes	Good	Fail
8	Good	Yes	Yes	Poor	Pass

(10 Marks)

## Module-5

- 9 a. Illustrate Meculloch and Pitts Neuron Mathematical model. Which are the different activation functions used in ANN? (10 Marks)
  - b. Explain the different types of ANN.

(04 Marks)

c. Explain the architecture of Radial Basis Function Neural Network (RBFNN) along with algorithm. (06 Marks)

#### OR

10 a. Differentiate between clustering and classification.

(04 Marks)

b. Write K-means algorithm. Give the cluster table after iteration 1 for the given data using K means algorithm with initial value of objects 2 and 5 with the coordinate values (4, 6) and (12, 4) as initial seed.

	AND THE RESERVE OF THE PARTY OF	
Objects	X Coordinate	Y Coordinate
1	2	#4
2	4	6
3	6	8
4	10	4
-5	12	4

(06 Marks)

c. Explain the different Cluster Evaluation methods.





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## Fifth Semester B.E. Degree Examination, June/July 2024 Research Methodology and Intellectual Property Rights

Time: 3 hrs. Max. Marks: 100

## Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Identify the meaning of Research and brief out the objectives and motivation in Engineering 1 Research. (10 Marks) b. Identify the steps to find the "Solve a worthwhile problem" (10 Marks) Identify the types of Engineering Research and briefly explain them. (10 Marks) Identify the ethical issues related to authorship and brief out them. (10 Marks) Module-2 Identify the essence of new and existing knowledge and explain briefly. 3 (10 Marks) Identify how search operators are used to narrow down the search results. (10 Marks) Identify the impacts of title and keywords on citation. (10 Marks) Identify acknowledgement and attributions in research process and briefly explain. (10 Marks) Module-3 Define Intellectual Property (IP). Explain the major types of IP. 5 (10 Marks) Identify the process of patenting. Briefly explain. (10 Marks) Explain briefly the Commercialization of a patent. (10 Marks) What are the exclusions (product and processes) that cannot be patented? Explain. (10 Marks) Module-4 Explain the classes or types of copyrights. (10 Marks) What is a Trademark? Explain the symbols in TM. (10 Marks) What are the advantages "the registration of a trademark provides to the proprietor"? (10 Marks) b. Identify process of Trademark registration and explain briefly the classification of TM. (10 Marks) Module-5

- Define Industrial design. Briefly explain acts and laws to govern Industrial design. (10 Marks)
  - b. Identify procedure for registration of Industrial design by taking example of Aple Inc Vs Samsung Electronics Co. (10 Marks)

- a. Define Geographical Identification (GI) and briefly explain acts, laws and rules pertaining to 10 (10 Marks)
  - Identify IP Organizations in INDIA. Explain schemes and programs for Intellectual Property (10 Marks)

# CBCS SCHEME

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				21C	IV
US	SN		Questi	on Paper Version : A	
	Fifth Semes	ter B.E./B.Tech. De	egree Examinati	on, June/July 2024	
			ental Studies		
Tim	ne: 1 hr.]			[Max. Marks: 5	50
		INSTRUCTION	S TO THE CAN	DIDATES	
1	. Answer all th	e fifty questions, each c	juestion carries one	mark.	
2	. Use only Bla	<b>ck ball point pen</b> for w	riting / darkening th	ne circles.	
3	. For each que	estion, after selecting y	your answer, dark	en the appropriate circ	cle
	correspondi	ng to the same question	number on the O	MR sheet.	
4	<ul> <li>Darkening tw</li> </ul>	o circles for the same q	uestion makes the a	nswer invalid.	
5	. Damaging/o	verwriting, using wh	iteners on the C	OMR sheets are stric	tly
	prohibited.				
	In an ecosystem, t a) Biodirectional	he flow of energy is b) Cyclic	c) Unidirectional	d) Multidirectional	
	Which of the folloa) Fungi	wing is a biotic compone b) Solar light	nt of an ecosystem? c) Temperature	d) Humidity	
3.	Which pyramid is	always upright?			
	a) Energy	b) Biomass	c) Numbers	d) Food chain	
	A. Comments	oir of nitrogen in our plan			
	a)Oceans	b) Atmosphere	c) Biosphere	d) Fossil fuels	
	Abiotic componer		a) Watan	J) All afthasa	
,	a) Soil	b) Temperature	c) Water	d) All of these	
	Primary consumer a)Herbivores	b) Carnivores	c) Macro consum	ers d) Omnivores	
		nment" is derived from _			
	a)Greek	b) French	c) Spanish	d) English	
	Mineral is, a) Organic matter c) Synthesis comp	oound	b) Naturally occu d) None of these	rring inorganic substance	

b) Naturally occurring inorganic substance d) None of these Ver A - 1

9.	The term ecosystem wa a)Jacob Van Verkul		c) Costraza	d) Marrie Gibbs		
10.	Gold occur in,					
10.	a)Sedimentary Deposits		b) Places deposits			
	c) Hydrothermal deposits		d) None of these			
11.	Fluorosis is caused due to,					
	a) No fluoride intake		b) Low fluoride intake			
	c) Excessive fluoride intake		d) None of these			
12.	Decrease of oxygen lev	el in water mainly cau	ises,			
	a)Fluorosis		b) Death of aquatic life			
	c) Water pollution		d) Both (b) and (c)			
10	Minaral masaying and					
13.	Mineral resource are, a) Renewable	b) Non-Renewable	c) Faually distribut	ed d) None of these		
	a) Kenewabie	b) Non-Renewable	c) Equally distribut	ed d) None of these		
14.	Deforestation can,					
	a) Increase the rainfall		b) Increase Soil fertility			
	c) Introduce silt in rivers		d) None of these			
15.	Plants usegas for photosynthesis.					
	a)Oxygen	b) Methane	c) Nitrogen	d) Carbon dioxide		
16.	Forests prevent soil ero			d) Dudo		
	a) Stems	b) Roots	c) Leaves	d) Buds		
17.	Nitrogen fixing bacteria exists in of plants?					
	a)Leaf	b) Roots	c) Steam	d) Flower		
18.	Which of the following	the state of the s		J) A 11 of these		
	a)Oceans	b) Springs	c) Rivers	d) All of these		
19.	The effluents from urba	in areas contain,				
	a) Oil and greases		b) Detergents			
	c) Nutrients		d) All of these			
3.0						
20.	Maximum dissolved ox		c) Vegetables	d) All of these		
	a) Fish	b) Bacteria	c) vegetables	u) All of these		
21.	Which of the following is not a component of soil?					
	a) Mineral matter	b) Organic matter	c) Ozone	d) Soil air		
22.	Definition of Noise is,					
44.	a) Loud sound	b) Unwanted sound	c) Constant sound	d) Sound of high frequency		
	a, Loud Sound	o, onwanted sound	t) constant sound	-, some or man more		
23.	The Noise is measured		*	*		
	a) Dacibale	b) Joules	c) PPM	d) NTH		

24.	Noise pollution can be minimized by,						
Ť	a) Urbanization		b) Maintaining sile	ence			
	c) Reducing noise at sou	irce	d) None of these				
25.	Bursting crackers mainl	-		960°   1005 100°			
	a)Noise pollution	b) Plastic pollution	c) Marine pollution	n d) None o	fthese		
26.	Water pollution can be a						
	a) Releasing sewage to c	b) Releasing effluent to waste land					
	c) Treating waste water	wearr	d) None of these	one to waste	iana		
	o, freating music mater		d) None of these				
27.	Chlorine can be used to,						
- / .	a) To kill pathogenic mic		b) To increase the	nН			
	c) To clear the turbidity	croorgamsms	d) All of these	PE			
	e) to clear the tarolarly		a) Till of these				
28.	Carbon content is higher	r in					
	a)Soil	b) Atmosphere	c) Water	d) Living	matter		
	) 5 0 11	<i>(</i> )	The second of th	a) 211 mg			
29.	The depletion of trees is causing accumulation of						
	a)NO <sub>3</sub>	b) SO <sub>2</sub>	c) $\overline{\text{CO}_2}$	d) $O_2$			
		0)002	7) 2	-/ -2			
30.	The adverse effect of mo	odern agriculture is.					
	a) Water pollution	b) Soil degradation	c) Water logging	d) All of t	hese		
	7,		, 20 0				
31.	E.I.A is related to,						
	a)Resource conservation		b) Efficient Equipment process				
	c) Waste minimization		d) All of these				
32.	"Earth Day" is held ever	ry year on,					
	a) June 5 <sup>th</sup>	b) November 23 <sup>rd</sup>	c) April 22 <sup>nd</sup>	d) January	26 <sup>th</sup>		
			say V		*		
33.	Which of the following is the most environmental friendly agriculture practice?						
	a)Using chemical fertilizers		b) Using insecticides				
	c) Organic farming		d) None of these				
34.	The diesel vehicles pollute the environmental largely through,						
	$a)NO_x$	b) CO	c) Unburnt hydroc	arbons	d) All of these		
<b>35.</b>	Which among the follow	ving is clean fuel?					
	a)Petrol	b) Diesel	c) Electricity	d) CNG			
36.	Which among the follow	ving is not a greenhou					
	a)N <sub>2</sub> O	b) CFC's	c) HFA's	d) None o	fthese		
	PS-ABECOTT						
37.	The protocol that reduce						
	a)Kyoto protocol	b) Cartagena protoco	l c) Montreal proto	col d) Vienn	a protocol		
		20					
38.	Global Warming could a	affect,					
	a) Climate		b) Increase in Sea	level			
	c) Melting of glaciers		d) All of these				

39.	Which of the following a) Volcanoes c) H <sub>2</sub> SO <sub>4</sub> manufacturing		atmosphere? b) Thermal power plants d) All of these		
40.	Atmospheric oxidation a) Sunlight c)Presence of hydrocar		enced by, b) Humidity d) All of these		
41.	Acid Rain effectsa)Materials	b) Plants	c) Soil	d) All of these	
42.	Ozone layer is present a) Troposphere	in, b) Stratosphere	c) Mesosphere	d) Thermosphere	
43.	Which of the following a) Decibels	is the unit for measur b) Dobson unit	ing the thickness of c	zone layer? d) None of these	
44.	CFC's have been used as, a) Solvents b) Refrigerants c) Blowing agents for polymer foams d) All of these				
45.	Ozone hole was first di a) Arctic	scovered over, b) Antarctica	c) Tropical region	d) Africa	
46.	The term acid rain was a) 1952	coined in the year, b) 1852	c) 1652	d) 1752	
47.	Which of the following is not a source of CO <sub>2</sub> in the atmosphere?  a)Burning of fossil fuels b) Photosynthesis c) Volcanic Eruptions d)Animal and plant respiration and control of the following is not a source of CO <sub>2</sub> in the atmosphere? b) Photosynthesis d)Animal and plant respiration and control of the following is not a source of CO <sub>2</sub> in the atmosphere?				
48.	Increase in Asthma atta a)Oxygen c) Nitrogen	n Asthma attacks has been linked to high levels of, b) Airborne dust particles n d) All of these			
49.	Food chain is divided in a) Four	basic cate b) Three	egories. c) Five	d) Seven	
50.	About ¾ of the country a) Karnataka	's coal deposits are for b) Tamil Nadu	und in, c) Kashmir	d) Bihar and Orissa.	

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