

CITY ENGINEERING COLLEGE Doddakallasandra, Kanakapura Road, Bengaluru 560062

### Department of Artificial Intelligence & Machine Learning

#### <u>Circular</u>

This is to notify that 3<sup>rd</sup> Internals of 8<sup>th</sup> semester will be conducted on 18/04/2024 10.30am-12.00pm -18AI81-Neural Networks and Deep Learning 2.30pm-4.00pm-18AI824- Modern Information Retrieval

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### Department Of Artificial Intelligence & Machine Learning

#### 8th Semester 3rd IA Time Table 18/04/2024

18/04/2024	10.30am-12.00pm	2.30pm-4.00pm
subject code	18AI81	18AI824

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	Departmen	t Of Artificial Intellige	ence	
	8th SEM 3RD IA H	FACULTY DUTY ALL	OTMENT	
Sl.No	NAME OF THE	18-04-2024 Thursday	18-04-2024 Thursday	
	FACULTY	10.30am-12:00PM	2:30PM-4:00PM	
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### Department Of Artificial Intelligence & Machine Learning

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1	1CE20AI001	ABDUL FAHEEM	Filesater
2	1CE20AI002	HAJIRA AHMED	sperfine
3	1CE20A1003	KEDAR JOSHI	Those
4	ICE20A1004	KOKILA K R	dep_
5	1CE20A1006	SHARON ZIPPORAH SEBASTIAN	flacon
6	1CE20A1007	SHARONA SAM	Sharan Sa
7	1CE20A1008	SUHAS GAJANANA	Julas
8	1CE20AI009	SYEDA ALIYAH BAKSHI	Sundation

#### 8th Semester 3rd IA Attendance 18/04/2024

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CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 560 061 Dept of Artificial Intelligence & Machine Learning CITY ENGINEERING COLLEGE Doddakallasandra. (Off) Kanakapura Road, Bangalore-560061



#### **CITY ENGINEERING COLLEGE**

#### Doddakallasandra, Bangalore:560062

#### Department of Artificial Intelligence and Machine Learning **INTERNAL TEST 2**

<b>Course: Modern Information Retrieval</b>	Course Code: 18AI824	Sem : VIII Sem
Max. Marks : 50	Date: 18/04/2024	Time: 2:30 PM to 4 PM

#### Answer any five full questions choosing any one from each part.

Q #	Question	Marks	CO	BT
	PART A			
1	What is a query language in the context of information retrieval? Briefly discuss the key components of a query language for information retrieval systems.	10 M	CO3	L1
	OR		600	
2	Illustrate Word Sense Disambiguation (WSD)? With an example, explain the various techniques to handle WSD PART B	10 M	CO3	L2
3	Explain i) 4 types of keyword-based querying ii) Single-word queries, context queries, and Boolean queries with examples	10 M	CO3	L2
	OR			
4	Explain the three uses of user relevance feedback and differentiate between Global and local analysis.	10 M	CO3	L2
5	Classify 3 main structural queries and explain in detail about	10 M	CO3	L2
	fixed structure and hierarchical structure			
	OR			
6	Explain Query expansion system reweighting for the vector model & term reweighting for the probability model.	10 M	CO3	L2
	PART D			
7	What are text operations? Explain with a neat diagram document the preprocessing stages.	10 M	CO4	LI
	OR			
8	Explain brief about Query expansion based on similarity thesaurus and explain pattern-matching words, prefixes, suffixes, substrings, and regular expressions.	10 M	CO4	L2
	PART E			
9	<ul> <li>i) What is an Index and list how the efficiency of an Information retrieval System depends on indexing.</li> <li>ii) With a neat diagram example explain in detail the Inverted Index(Basic)</li> </ul>	10 M	CO4	L2
	OR			
10	Outline with a neat diagram example explain in detail the Full Inverted Index	10 M	CO4	L2

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### CITY ENGINEERING COLLEGE DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ENGINEERING

#### SCHEME FOR EVALUATION

#### CIE TEST-I

#### SEMESTER & SECTION: VIII Modern Information Retrieval

Subject Code: 18AI824

Q. N		Details of the Answer	Marks Distributio n	Total mark s
1	Briefly	s a query language in the context of information retrieval? discuss the key components of a query language for nation retrieval systems.		10
	•	Text retrieval systems can answer various types of queries depending on the retrieval model adopted.	Each 5 marks	
	•	Full-text systems may not answer the same queries as those based on keyword ranking or hypertext models.		
	•	Some query languages are not intended for final users and can be used by higher-level software packages to query databases or CD-ROM archives.		
	•	Most query languages use content and syntax to find relevant documents, but may fail to find relevant answers. Techniques to enhance query usefulness include expanding words to synonyms, using a thesaurus, and removing stopwords.		
	•	The retrieval unit, which can be a file, document, web page, paragraph, or other structural unit, is another aspect of the system's approach.		

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2.	Illustrate Word Sense Disambiguation (WSD)? With an		
	example, explain the various techniques to handle WSD Word Sense Disambiguation (WSD) is the process of determining the correct meaningor sense of a word based on the context in which it appears. In the context of Information Retrieval (IR), WSD is important because it helps improve the accuracy of search results by ensuring that the retrieved documents are relevant to the user's query.	Definition 2 marks Explanatio n 8 marks	10 marks
	<ul> <li>Machine Translation</li> <li>Information Retrieval (IR</li> <li>Text Mining and Information Extraction (IE</li> <li>Lexicography - WSD</li> </ul>		
3.	Explain 1) 4 types of keyword-based querying ii) Single-word queries, context queries, and Boolean queries with examples		
	Single-word queries		
	Text retrieval systems typically search for words, which are long sequences of letters. Most models allow us to view text in this perspective and search words, with some models also allowing for internal division into letters.	Each 2 marks and Examples 2 marks	10 marks
	The set of words retrieved can be used for word-treating purposes, such as thesaurus expansion or ranking purposes. Words carry significant meaning in natural language, so many models are structured around words.		
	Word queries result in documents containing at least one word of the query, and ranked based on similarity to the query. Common statistics on word occurrences are used to support ranking.		
	Context queries Phrase is a sequence of single-word queries. An occurrence of the phrase is a sequence of words. For instance, it is possible to search for the word 'enhance,' and then for the word 'retrieval.'		

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	Boolean queries The oldest (and still heavily used) form of combining keyword queries is to use Boolean operators. A Boolean query has a syntax composed of atoms (i.e., basic queries) that retrieve documents, and of Boolean operators that work on their operands (which are sets of documents) and deliver sets of documents.		
	Explain the three uses of user relevance feedback and differentiate between Global and local analysis.		
4.	Differentiation between Global and local	2marks	10 marks
	The main idea consists of selecting important terms, or expressions, attached to the documents that have been identified as relevant by the user, and of enhancing the importance of these terms in a new query formulation.	8 marks	
	(a) expand queries with the vector model, (b) reweight query terms with the probabilistic model, and (c) reweight query terms with a variant of the probabilistic model.		
	Classify 3 main structural queries and explain in detail about fixed structure and hierarchical structure		
5.	<ol> <li>Expanding the original query with new terms,</li> <li>And reweighting the terms in the expanded query.</li> <li>everal of approaches available for improving the initial query formulation through query expansion and term reweighting. These approaches are grouped in three categories:</li> <li>Approaches based on feedback information from the user;</li> <li>Approaches based on information derived from the set of documents initially retrieved (called the local set of documents);</li> </ol>		10 marks
	Fixed structure		

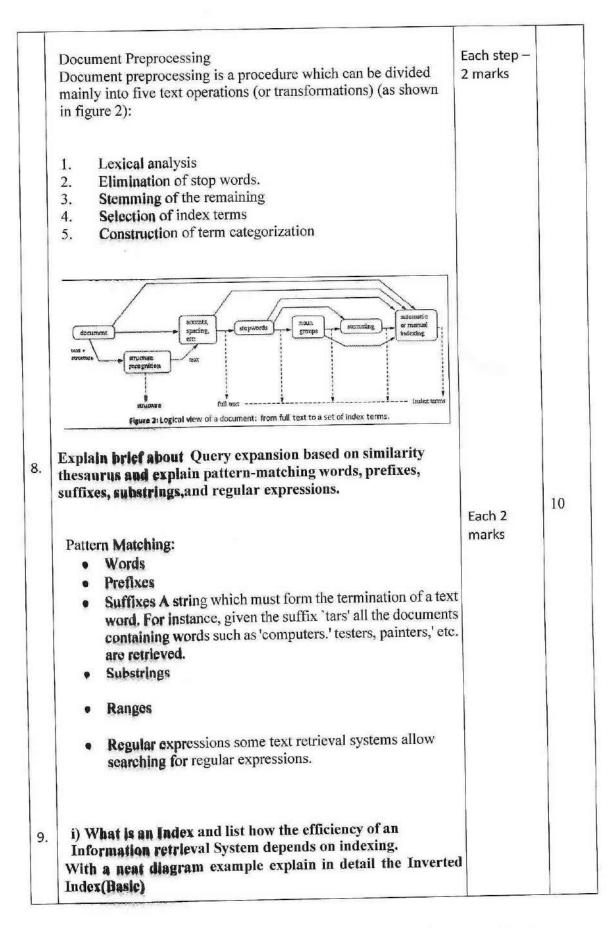
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	Hierarchical structure		
1	.Explain Query expansion system reweighting for the vector model & term reweighting for the probability model.		
	, Dr: set of relevant documents, as identified by the user, among the retrieved documents; Dn: set of non-relevant documents among the retrieved documents; Cr: set of relevant documents among all documents in the collection;  Dr ,  Dn ,  Cr : number of documents in the sets Dr, Dn, Crrespectively; $\alpha, \beta, \gamma$ : tuning constants. Consider first the unrealistic situation in which the complete set Cr of relevant documents to a given query q is known in advance.	Model explanatio n 4 marks each	10 marks
	Standard-Rochiq: $\vec{q}_m = \alpha \vec{q} + \frac{\beta}{ D_r } \sum_{\forall \vec{d}_j \in D_r} \vec{d}_j - \frac{\gamma}{ D_n } \sum_{\forall \vec{d}_j \in D_n} \vec{d}_j$ Ide-Regular: $\vec{q}_m = \alpha \vec{q} + \beta \sum_{\forall \vec{d}_j \in D_r} \vec{d}_j - \gamma \sum_{\forall \vec{d}_j \in D_n} \vec{d}_j$ Ide-Dec-Hi: $\vec{q}_m = \alpha \vec{q} + \beta \sum_{\forall \vec{d}_j \in D_r} \vec{d}_j - \gamma \max_{non-relevant}(\vec{d}_j)$		
	Term Reweighting for the Probabilistic Model		
	$sim(d_j,q) \alpha \sum_{i=1}^{l} w_{i,q} w_{i,j} \left( \log \frac{P(k_i R)}{1 - P(k_i R)} + \log \frac{1 - P(k_i \overline{R})}{P(k_i \overline{R})} \right)  \mathbb{I}$	2]	
7	What are text operations? Explain with a neat diagram document the preprocessing stages.	Diagram 2 marks	10

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Diagram- 2marks Each -2 marks
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Diagram- Rmarks

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RGPVNOTE Occurrences as full inverted lists Vocabulary  $n_i$ [1,4,[1,4,6,9]],[2,2,[1,5]] [1,2,[2,10]],[3,3,[6,8,10]],[4,3,[1,2,3]] 2 to 3 do [1,2,[3,8]] 1 is [1,2,[5,7]],[2,2,[2,6]],[3,2,[7,9]],[4,2,[9,12]] bə 4 or 1 [2,1,[3]] [2,1,[4]] To do is to be. To be is to do. not 1 To be or not to be. I am what I am. [2, 1, [4]][2, 2, [7, 10]], [3, 2, [1, 4]][2, 2, [8, 11]], [3, 1, [5]]221 1 am di [2,1.[9]]  $d_2$ what [3,1.[2]] think 1 I think therefore I am Do be do be do. [3,1,[3]] [4,3,[4,5,6]] [4,2,[7,10]] [4,2,[8,11]] Do do do, da da da. Let it be, let it be. therefore 1 da d3 let da iţ, Figure 5: Full Inverted Index The space required for the vocabulary is rather small Heaps' law: the vocabulary grows as  $O(n\beta)$ , where n is the collection size. 2 β is a collection-dependent ? The occurrences demand much more space the extra space will be O(n) and is around. 40% of the text size . Vogland skaup

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#### CITY ENGINEERING COLLEGE BENGALURU

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3	1CE20AI003	40
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# CITY ENGINEERING COLLEGE

Doddakallasandra, Kanakapura Road, Bengaluru 560062

# Department of Computer Science and Engineering

#### <u>Circular</u>

This is to notify that 3<sup>rd</sup> Internals of 8<sup>th</sup> semester will be conducted on 18/04/2024 10.30am-12.00pm -18CS81 (Internet of Things) 2.30pm-4.00pm-18CS822 (Storage Area Network)

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# **CITY ENGINEERING COLLEGE** Doddakallasandra, Kanakapura Road, Bengaluru 560062

# **Department of Computer Science and Engineering**

# 8<sup>th</sup> semester 3<sup>rd</sup> Internal Time Table

18/04/2024	10.30am-12.00pm	
Subject Code	18CS81	2.30pm-4.00pm 18CS822

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	8th SEM 3RD IA	FACULTY DUTY ALI	OTMENT
SI.N		18-04-2024 Thursday	18-04-2024 Thursday
		10.30am-12:00PM	2:30PM-4:00PM
1	Mrs. Shruthi B S	C201	
2	Mrs. Swetha A	C202	
3	Mrs. Vibhavi R N	C203	
4	Ms. Shravya S		C201
5	Mr. John Peter		C202
5	Mrs. Nayana R K		C203



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# **CITY ENGLINEERIING COLLEGE**

Doddakallasandra, Bangalore - 560 062

Room Allotment for 2nd Internal Test\_UG - 8 th Semester 18th April 2024

## **ROOM NO:- CS-401**

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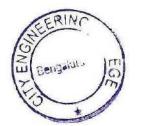
## **ROOM NO:- CS-402**

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5	1CE20CS060		1052000022	10	1022003076	16	1CE20CS084	26	1CE20CS091
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7	1CE20CS061	8	1CE20CS072	19	1CE20CS078	-	1052000007	21	1012003036
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March-2024

23	COMPUTER SC	IENCE & ENGINEERI	NG
	VIII SEMESTER- SI	ECTION: A	III INTERNAL TEST
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		and the second	JECT CODES
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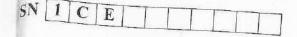
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COURSECODE:18CS822

# CIŢYENGINEERINGCOLLEGE

KanakapuraRoad,Doddakallasandra,Bengaluru-560062

## THIRD INTERNAL TEST

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rogramme:CS/IS jourse Name:Storage Area Networks em:VIII A&B )uration:1½Hrs

Date:08/05/2024 Time:2:30PM-4:00PM

MAX MARKS:50

Note: Answer any FIVE questions choosing at least ONE from each part

Describe Backup and restore operations.			CO'S	BT BT
		10	COI	BT1
Discuss different to the				БП
Discuss different backup topologies.				
		10	CO1	BT1
Mention Major Land				
Mention Major Local replication technologies. Explain network based	T		- 10	
OR	1	0   C	01	BT1, B'
A) Discuss flushing the file and the a				
3) Explain the uses of local replicas.	5	C	01	
	5			BT1,BT3
Part-C				1
xplain host based remote replication with neat diagram.	-			
	10	CC	)2 B	T1, BT2
) Difference between synchronous and	-			
OR Difference between synchronous and asynchronous remote replication modes. Explain FCSCAN security architecture with a neat diagram.	5	1	-	
n u neut tragtalli.	5	CO	2 B	T2, BT3
plain storage security domains.				
OR	10	со	2 B	Г2, ВТ3
hat is remote replication? Equal to			-	-,213
hat is remote replication? Explain storage array based remote replication.	10	CO	2 107	Г1, BT2
Part-E			101	. 1, БІ2
ite a note on i) Assets ii) Threats iii) Vulnerability				
(105013 II) Threats III) Vulnerability	10	CO2	BT	2, BT3
OR			-	-, - 10
lain storage array based local replication in detail.				
the replication in detail.	10	CO2		3, BT4

concepts BT2-Understanding BT3-Applying BT4-Analyzing BT5-EvaluatingbrseOutcomes(CO's): I: Understand the techniques and summarize the concentsER.

?: Investigate the concepts and apply the same

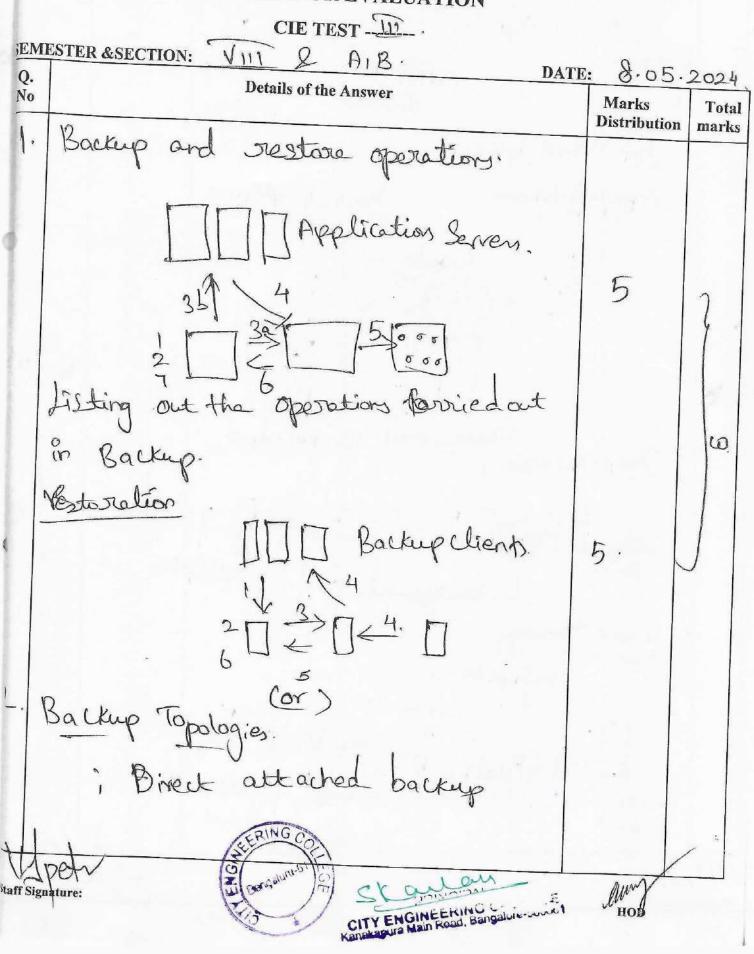


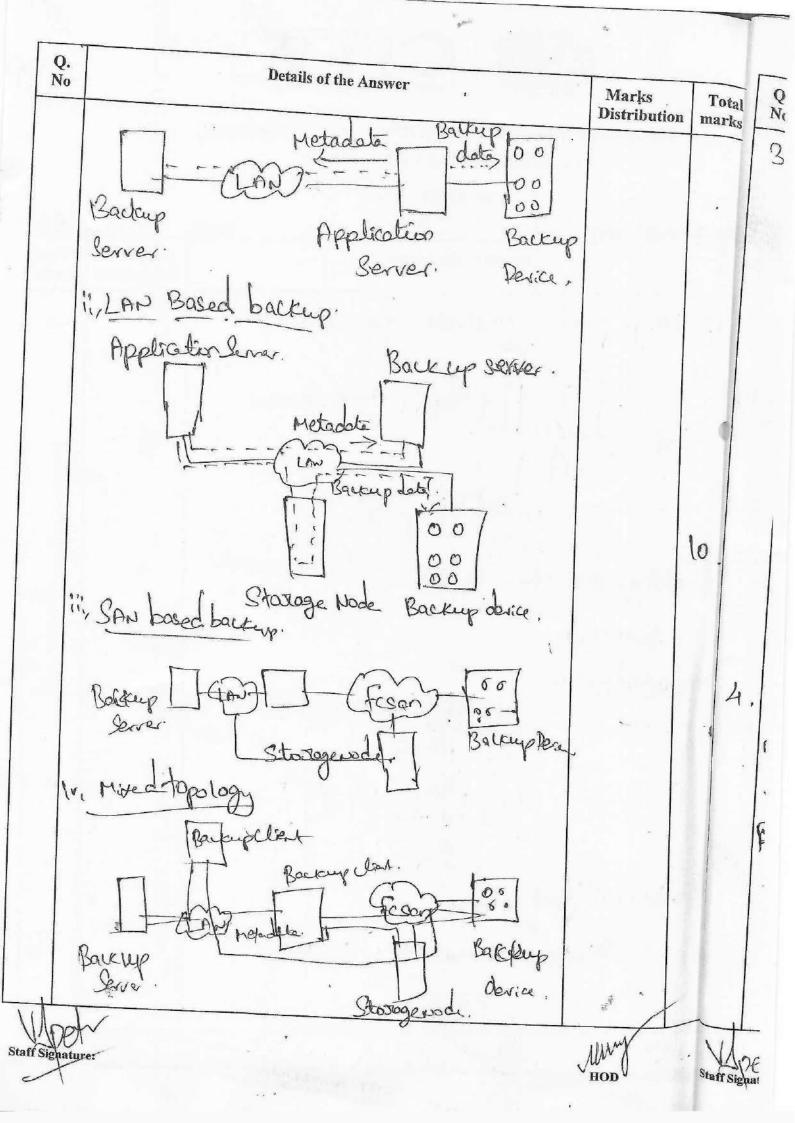
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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SCHEME FOR EVALUATION





2. Q. Details of the Answer tal No ·ks 3. Major Local Replication technologies. Marks Total Distribution marks 1. Snapshat replication. 2. Minroving 3 3. Asynchronous Replication. 4. Choning. Network based blat Replication 10. Ĵ. involves Replicating date blue Storage Sim over a polo within a LAN or SAN 1, Storage Array Based. 2. Host Based, 5 3. Fire Based. 4. Block Lovel .. (ON) 4. A, Finshing the SIM buffer refers to. 2 Date held in momory buffer by the Applonation file Sim is coaitheratio disk. B. Uses of Local Replicas 1. Alternative Saure for backup. 10. 2. Fast se covery 5 3. Testing platform. 4. Data migration 1 5. Degiter Eengaluru-er Staff Signature: HOD

Q. Details of the Answer No Marks Q. Total No Distribution marks 6 Host Based Remote Replication. --> LVM -Based Remate Replication 5 B 19 10. > Host based log Shipping. 5 8 P A 19 19 P (01)6. A. Synchwrous Asynchonoy coaste must be Committed A waste is Committed the source and the target to the source and 5 prior to acknowledging . I'mmediately acknowwith Complete to the I redged to the host. production hose. 18 B. FCSCAD. of levering with 5 Hultiple Integrated Ill Staff Signatu Eldery HO to the Lorenze by

Q. Ital Details of the Answer No rks Marks Storage decurity I Total 7 Distribution marks 20mains. Manage mont ACCEn. Backup, 10 w Replication, Sp Storage Ppplication 1 Archive Acces NW Flord 3. Storage Storage (or), 8. ferrote Replication Replicas of information assets at the genate Sites aganization mitiget 3 the sists. Storage, Array Based Perrote Replication. 10 i Synchronous Replication Mode 11, Asynchronous Application mode. 7 iii. Disk Buffered Replication 10 mode. els: No. ay PRINCIPAL CITY ENGINEERING COL LEGE Staff Signature: lille kapura Main Road, Bangaro HO

Q. Details of the Answer No Marks Total Distribution 9. marks ", Assets. Information, H(w, Slw end 3 Other infrastructure Components are Asies. ii, Threats. passive Attack, Data modification Attack. 4 0 Dos. Rependiction. iii, Vulnerability. Potential Attacks 3 Defense indepth. Layoud approach to security. 617 (0. Statage Prray based local Replication Read/ Source Replicer Read/ 5 boule production Belton 10. Hose ; Full Valuence minioring 5 pointer Based full Valuere Deplication Nr. all all enature:

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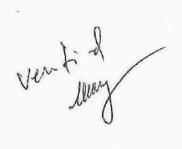
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#### CITY ENGINEERING COLLEGE Doddakallasandra, Kanakapura Road, Bengaluru 560062

#### Department of Electronics and Communication Engineering

#### **Circular**

This is to notify that 3<sup>rd</sup> Internals of 8<sup>th</sup> semester will be conducted on 18<sup>TH</sup> and 19<sup>TH</sup> APRIL 2024

10.30am-12.00pm -18EC81 (Internet of Things)

10.30pm-12.00pm-18EC821 (Network security)

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Doddakallasandra, Kanakapura Road, Bengaluru 560062

## Department of Electronics and Communication Engineering

### 8<sup>th</sup> semester 3<sup>rd</sup> Internal Time Table

DATE	10.30am-12.00pm	SUBJECT
18/04/2024	18EC81	Internet of Things
19/04/2024	18EC822	Network security

PRINCIPAL CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 560 061

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8th SEM 3RD IA ROOM ALLOTMENT							
Sl.No	8 EC 'A'	18-04-2024 Thursday	19-04-2024 FRIDAY				
	one n	10.30am-12:00PM	10:30PM-12:00PM				
	USN	A103	A103				
1	1CE20 EC 001	A103	A103				
2	1CE20 EC 002	A103	A103				
3	1CE20 EC 003	A103	A103				
4	1CE21EC 400	A103	A103				
5.	1CE21EC401	A103	A103				

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	8th SEM 3RD IA F	ACULTY DUTY AL		
SI.No	NAME OF THE	18-04-2024 Thursday	19-04-2024 FRIDAY	
	FACULTY	10.30am-12:00PM	10:30PM-12:00PM	
]	Dr shaini Prasad	A103		
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# Visvesvaraya Technological University

## IA / CIE Report June / July 2024 Examination.

## CITY ENGINEERING COLLEGE, BANGALORE

Brancl	h : EC Sc	cheme : 20	018	Semes	ster:8		
SI NO.	USN	18EC81	18EC821	18ECP83	18ECS84	18EC185	STUDENT SIGNATURE
1	1CE20EC001-	33	37	34	86	35	
2	1CE20EC002	35	37	38	95	36	
3	1CE20EC003	23	26	28	81	26	
4	1CE21EC400	23	23	26	78	25	
5	1CE21EC401	36	36	38	96	35	and the second
X	Faculty Signature	Ar	Ships IL	notin			XXXXXXX

\* - values are either optional subjects or the faculty has not yet entered the marks TH - Theory part of CIE Marks (IPCC)

PR - Practical part of CIE Marks (IPCC)

T - Total CIE Marks (IPCC)

HOD

Seal and Signature Professor & Head Dept. of Electronics & Communication Engineering City Engineering College, Doddekolasternere, Korokopare Mein Ho-Bangalura-580 051.

PRINCIPAL Seal and Signature PRINCIPAL CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 559 961

Skarver

Co Sei	CITY ENGINEERING COLLEGE FIRST INTERNAL TEST ogramme: ELECTRONICS AND COMMUNICATION	'ime: 2:3	ate:26/(	03/202 4:00 P
Q No	Note: Answer all Questions selecting any ONE FULL question fro Questions		1	BT'S
140	PART-A	Marks	CO's	
1	Why a security is needed? Brief. Enumerate the salient features of modern nature of attacks.	10	CO1	L1, L2
	OR			1
2	Explain the principles of security with necessary diagrams.	10	CO1	L1, L2
	PART-B			
3	What are Active attacks? Explain Masquerade, Replay attack, Alteration of messages and Denial of service.	10	CO1	L1, L2
	OR			
4	Mention the programs that attack computer systems. Explain Virus and its four phases of lifetime.	10	CO1	L1, L2
	PART-C			
5	Highlight the key characteristics of the four generations of anti-virus software.	10	CO1	L1, L2
	OR			
6	Tabulate the Web Security Threats, consequences and countermeasures with respect to Integrity, confidentiality, Denial of service and Authentication.	10	CO2	L1, L2
	PART-D		1	
7	Explain with neat figures, the three-level web traffic security approaches.	10	CO2	L1, L2
-	OR			
3	Describe SSL architecture with SSL protocol stack.	10	CO2	L1, L2

Blooms Taxonomy Levels (BTL): BT1-Remembering BT2- Understanding

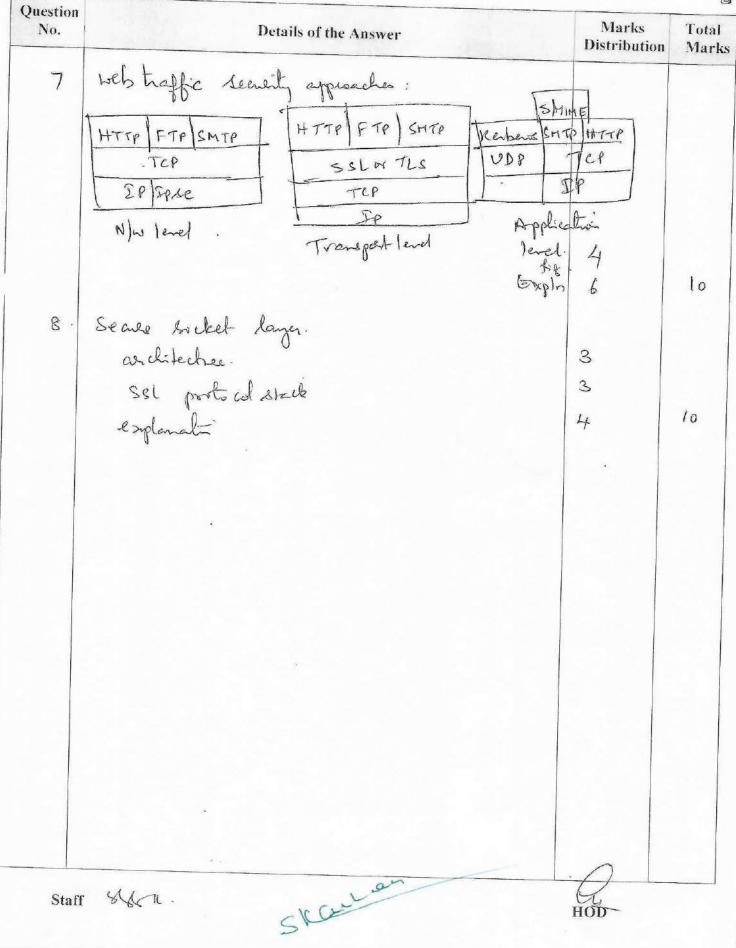
Course Outcomes (CO's): CO1: Explain network security services and mechanisms and explain Security concepts

Stor

CO2: Understand the concept of transport level security and SSL.

**CITY ENGINEERING COLLEGE DEPARTMENT OF ELCECTRONICS & COMMUNICATION ENGINEERING SCHEME FOR VALUATION- 2023-24** INTERNAL TEST: \_\_\_\_\_ Network Sub Code: 18 EC 8 21 Sub Name: Security Semester & Section: 8 A 26-3-24 Date: Question Marks No. Total Details of the Answer Distribution Marks 1. Need of Securito Ilpostance & data - To handle of coree financial is personal data - To authenticate a uses. - To encode database info - To avoid intender capturing ite data Sahert features of modeen nature of attacks; 5 - Antomating attacks Reivacy concers - Distance no malter 5 10 2. Persniples of security - confidentiality, Anthentication, Integrity 13 Oven - Republication A B Il c loss of confidentiality (interceptions) confidentiality . 3 Arthentication: A Process A B TC (Proof g identities ) (Fablication) 3 Sutegritz: A ideations (loss of integrity) Cartual write (modification) 3 10 Non- reprodiation - Refread of info. sent. (denial of doirs) 1 Active allacke me modifying the original meetage or creation of false meesage. Not an easy way to prevent. 3 ١ Masqueeade - Tenjoy to pose as another entity. 3 Replay attack - Modifications & recending Alteration of messages - charges to obiginal data Denial y Revice - Attack to prevent lighting use from Darcussy - services. 3 2 20 HOD Staff Sys. V scanta

Scheme of Valuation - 2023-24



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## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING Circular

This is to notify that 3<sup>rd</sup> Internals of 8<sup>th</sup> semester will be conducted on 18/04/2024

10.30am-12.00pm -18CS81 (Internet of Things)

2.30pm-4.00pm-18CS822 (Storage Area Network)

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## **DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

### 8th semester 3rd Internal Time Table

18/04/2024	10.30am-12.00pm	2.30pm-4.00pm
Subject Code	18CS81	18CS822

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	Department Of	Information Science and Engine	ering
	8th SEM 3RD	A FACULTY DUTY ALLOTM	ENT
SLNo NAME OF THE 18-04-2024 Thursday			18-04-2024 Thursday
	FACULTY	10.30am-12:00PM	2:30PM-4:00PM
1	Mrs. Shruthi B S	C201	
2	Mrs. Swetha A	C202	
3	Mrs. Vibhavi R N	C203	
4	Ms. Shravya S		C201
5	Mr. John Peter		C202
6	Mrs. Nayana R K		C203

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# Room Allotment for 3<sup>rd</sup> InternalTest\_UG -8thSemester\_18<sup>th</sup>April2024

# ROOMNO:-CS-203

SeatN	<b>8SEMISB</b>			
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2	1CE20IS002			
3	1CE20IS003			

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#### Department of Information Science and Engineering

#### **VIII SEMESTER - SECTION: B**

**III INTERNAL TEST** 

		ROOM No: C-203	
SI No.	USN	Morning	Afternoon
		18CS81	18CS822
1	1CE201S001	Aibha Kamen	Aisha Komin .
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PRINCIPAL CITY ENGINEERING COLLEGE kanakapura Main Road, BANGALORE - 560 061

USN ICE	COURS	CODI	E:18CS822
CITYENGINEERINGCOLLEGE KanakapuraRoad, Doddakallasandra, Bengaluru-5600 THIRD INTERNAL TEST			Mundet
Course Name:Storage Area Networks Sem:VIII A&B	Time:	08/05/2 2:30PN	024 1-4:00PM
Duration Note: Answer any FIVE questions choosing at least ONE from each pe	N art	MAXN	IARKS150
Part-A		CO'S	BT'S
1. Describe Backup and restore operations.	10	COI	BT1
OR			<u>I</u>
2. Discuss different backup topologies.	10	C01	BT1
Part-B		L	L
Mention Major Local replication technologies. Explain network based	10	CO1	BT1, BT2
OR	I I		
<ul> <li>A) Discuss flushing the file system buffer.</li> <li>B) Explain the uses of local replicas.</li> </ul>	5	C01	BT1,BT3
Part-C	11		J
5. Explain host based remote replication with neat diagram.	10	CO2	BT1, BT2
· . OR			<u> </u>
<ul> <li>A) Difference between synchronous and asynchronous remote replication modes</li> <li>B) Explain FCSCAN security architecture with a neat diagram.</li> </ul>	. 5 5	CO2	вт2, втз
Explain storage security domains.		and the second	
. OR	10	CO2	BT2, BT3
What is remote replication? Explain storage array based remote replication.	10	CO2	BT1, BT2
Part-E			<u>ا</u> ا
Write a note on i) Assets ii) Threats iii) Vulnerability	10	CO2	BT2, BT3
, OR			
			the second se

BloomsTaxonomyLevels(BTL): BT1- Remembering the conceptsBT2-UnderstandingBT3-ApplyingBT4-AnalyzingBT5-Evaluating CourseOutcoines(CO's):

COI: Understand the techniques and summarize the concepts

CO2: Investigate the concepts and apply the same

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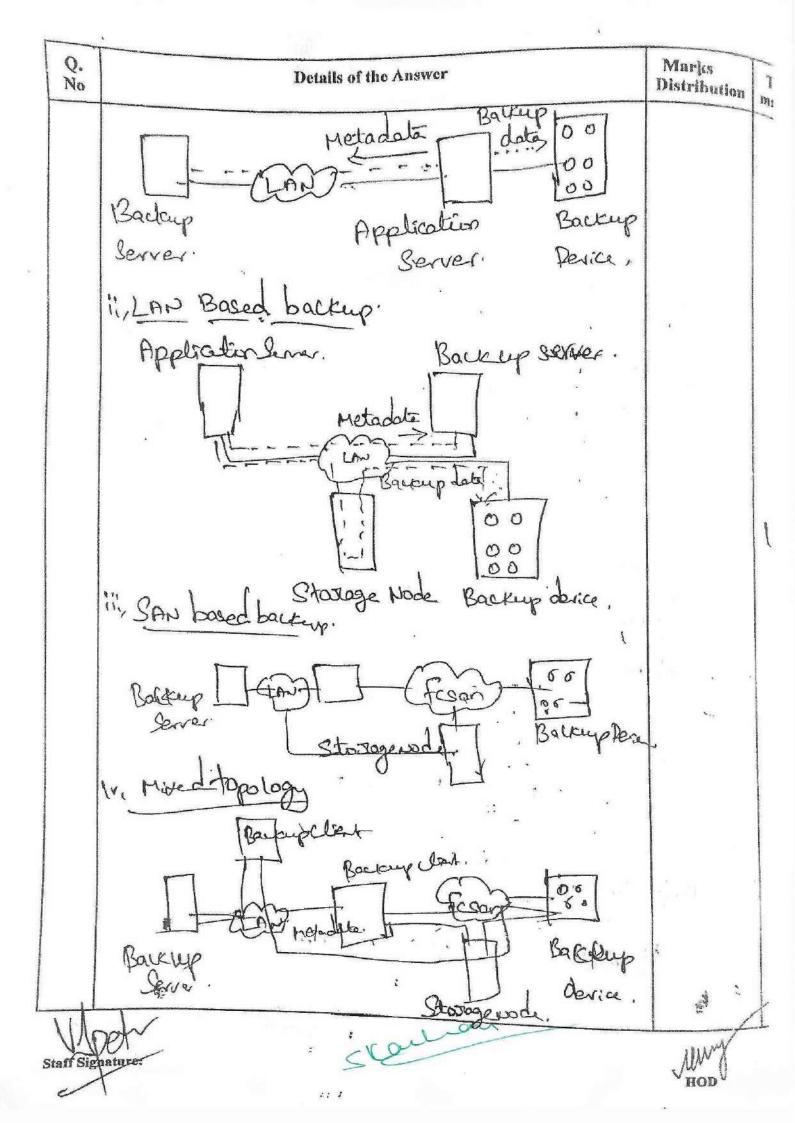


# DEPARTMENT OF, COMPUTER SCIENCE AND ENGINEERING

# SCHEME FOR EVALUATION

CIE TEST ..... VIII SEMESTER & SECTION: 8.05.2024 AIB. DATE: Q. Details of the Answer Marks Total No Distribution marks ١. Backup and restore operations. Application Servers. 5 2 Listing out the operations privied at (0) in Backup. Vestoration Backup Clients. 5 (or) 2. Backup Topológies. Divert attached bac 14 Allen PRINCIPAL Staff Signature: CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 560 06% HOI

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Details of the Answer Hajor Local Raplication technologies. Total Marks marks Distribution Y. Snapshat replication. 2. Hiwaring 3. ASynchronous Replication. 2 4. Choning Network based local Replication 10. involves Réplicating date blu Storage D. Slow over a polo within a LAN or SAN. 1, Storage Away Based. 2. Host Based, 3. fire Based. 4. Block Lovel. A, Finshing the SIM buffir refers to. ? Data load in momory buffer by the Applination the Smis Courterto disk B. Uses of tocar Replicas 1. Alternative: Saure for backup. (0. 2. Fast ne Covern Testing platform. 4. Data regration 5. Docision CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 568 061

Marks Q. Th Details of the Answer Distribution No mai Host Based Permate Replication. h . -> LVM -Based Remale Replacation 5 4 P 10 > Host based log Shipping 5 A P  $\square$ 9 19 19 19 OY 6. A. Synchronous Asynch show coaite must be Committed A waste is Committed the source and the target to the source and peror to acknowledging . " "immediately acknowsails Complete to the J-ledgel to the host. production holk. 18 B. FCOLAN. Hultiple Integrated De PRINCIPAL Staff/Sigha HOH CITY ENGINEERING COLLEGE Kanakapura-Mein Road, BANGALORE - 560 061

3 Details of the Answer Q. Total Marks decurity " marks NO Distribution Storage 1 omains. Marage mant. Acen. Backup, w 0 Peplicetion, 2p Archive Storage ppplication NW Accen Gland Studios to Storage (or) 8. femote Replication Replicas of information assets at 3 the genrate Sites aganization mitigete the sists. Stadge, Array Based Pernate 10 Replication, i Synchronous Replacation Mode 11, Asynchronous Application mod iii, Disk Buffered Replication mode. in' 驗 lu PRINCIPAL ature: CITY ENGINEERING COLLEGE HOD Kanakapura Main Road, BANGALORE - 560 861

Q. No Marks Distribution T'MA Details of the Answer mang 9. ", Assets. Information, Hlus, Slw and 3 Other infrastructure Components are Asice, ii, Threads. Passive Attack, Data modification Attack. 4 10 Dos Rependiation. iii, Vulnerability Potential Attacks 3 Referse indepth. Layered approach to security. 647 10. Statage Array based local Replication Read/ Soone Replice Read/ 5. toute production Biltost 10 Full Valume, minoring pointer Based full Valuere Replication AL. Willia. 1 on taff Signature: RINCIPAL **Ħ**O CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 568 061

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Page 1 of 1



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## **`Department of Mechanical Engineering** <u>Circular</u>

This is to notify that 3rd Internals of 8th semester will be conducted on 10/05/2024

10.30am-12.00pm -18ME81 (Energy Engineering)

2.30pm-4.00pm-18ME822 (Tribology)

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CITY ENGINEERING COLLEGE Nanakapura Main Read, BANGALORE - 560 061 HOD



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### **`Department of Mechanical Engineering** <u>3<sup>rd</sup> IA Time Table</u>

DATE	TIME	SUBJECT CODE
10-05-2024	10:30-12:30	18ME81
10-05-2024	2:30-4:30	18ME822

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#### **`Department of Mechanical Engineering** 8<sup>th</sup> semester 3<sup>rd</sup> Internal Duty Allotment

10/05/2024	10.30am-12.00pm	2.30pm-4.00pm
Faculty Name	PROF.ANIL KUMAR R	PROF.HARSHA VARDHAN U

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#### <sup>\*</sup>Department of Mechanical Engineering 8<sup>th</sup> semester 3<sup>rd</sup> Internal Duty Allotment

10/05/2024	10.30am-12.00pm	2.30pm-4.00pm
Room No	A307	A307



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#### Department of Mechanical Engineering 8<sup>th</sup> semester 3<sup>rd</sup> Internal Attendance

SI No	USN	10.30am-12.00pm	2.30pm-4.00pm
		18ME81	18ME822
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Name: Sultas Branch Mech	B anical ESI Subject: E		VIII Section
Sl.     Particulars       1.     Test - 1       2.     Test - 2       3.     Test - 3	Date Page No. 26 03 2024 1-78 19 04 2024 9-16 10 05 2024 17-24	Max. Marks Marks Awarded 50 44 50 45 50 45	Signature of Staff Incharge A.M. A.M. A.M.
W ICEDOME	D ent Final I.A.	·B	signature of H.O.D

	USN COURSE CODE: 1	8M	E81	
L	CITY			
	ENGINEERING COLLEGE			
	FIRST INTERNAL TEST			
	PROCRAMME: MECHANICAL ENGINEERING DATE:	26/03	/2024	
	PROGRAMME: MECHANICAL ENGINEERING DATE: COURSE NAME: Energy Engineering TIME: 10:30AM			
	SEM. STH 4A'		10. 50	
	Duration: 1.30 Hrs MAX M		15: 50	
0	Note: Answer any FIVE questions choosing at least one from each Part. PART – A	M	CO'S	BT'S
Q no.				
	Explain briefly steps involved in coal handling.	10	C01	BT2
1.		10	0.01	0112
	OR			
2.	With a neat sketch explain induced draught cooling tower.	10	C01	BT2
	PART – B		_	_
3.	With a neat sketch explain the working of Bensen boiler.	10	C01	BT2
	OR			
4.	Explain the working of down draft gasifier.	10	C02	BT2
	PART-C			
5.	Explain the following 1. Superheater 2, Air preheater	10	C01	BT2
	OR			
4	With a neat sketch explain horizontal and vertical axis wind machines	10	C03	BT2
6.				
	PART-D	1		
7.	Explain Induced Draught System.	10	C01	BT2
	OR		-	
	With a neat diagram, explain closed cycle Rankine cycle OTEC system.	0.5	COD	DTO
8.		05	C03	BT2
	PART-E			
9.	With a neat sketch explain Pyranometer	10	C01	BT2
	OR			
10.	With a neat sketch explain the working of pressurized water reactor.	06	C03	BT2

#### Blooms Taxonomy Levels (BTL)

BT1- Remembering BT2- Understanding BT3 - Applying BT4 - Analyzing BT5- Evaluating BT6-Creating.

tailan CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 560 061



DEPARTMENT OF Mechanical Engineering

SCHEME FOR VALUATION.

Internal Test 18t

Semester & Section :- 8th & A

Date: 26 03 2024

Question No.	Details of the answer	Marks Distribution	Total Marks
1	steps involved in coal handlong	10	10
d.	Sketch	,042 06 J	Lo.
3.	Explanation Sketch Explanation	04 2 06 ]	10
4.	Explanation Explanation	042 06]	10
5.	Superheater Air préheater	05-7 05-7	10
6	Horizontal Asus Machines Vertical Axes Machine	05]	10
7.	. Sketch Explanation	04	10
8	Explanation	063	10
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PRINCIPAL CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 560 061 603



DEPARTMENT OF Mechanical Engineering.

- SCHEME FOR VALUATION\_
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Date: Question Details of the answer Marks Total No. Distribution Marles Sketch 9 04 10 Explanation Sketch Explanation 06 04 10. 10 1 all Staff PRINCIPAL CITY ENGINEERING COLLEGE Kanakapura Main Road, BANGALORE - 560 061



# Visvesvaraya Technological University

#### IA / CIE Report June / July 2024 Examination.

#### CITY ENGINEERING COLLEGE, BANGALORE

Branch : ME Scheme : 2018 Semester : 8

SI NO.	USN	18ME81	18ME822	18MEP83	18MES84	18MEI85	STUDENT SIGNATURE
1	1CE20ME001 -	37	36	34	80	34	
2	1CE20ME002	26	25	24	53	25	
x	Faculty Signature	AF	A.	Arithes	Altrin	Jun	xxxxxxxx

\* - values are either optional subjects or the faculty has not yet entered the marks

TH - Theory part of CIE Marks (IPCC)

PR - Practical part of CIE Marks (IPCC)

T - Total CIE Marks (IPCC)

Seal and Signature

HEAD OF THE DEPARTMENT Mechanical Engineering CITY ENGINEERING COLLEGE Doddakallasandra, Kanakapura Main 5 3d BANGALORE - 560 061

On

PRINCIPAL Seal and Signature PRINCIPAL CITY ENGINEERING COLLEGE Nanakapura Main Road, BANGALORE - 560 061



#### 07/05/2024

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#### CIRCULAR

### Dear Students of 2<sup>nd</sup> Semester,

The college's discipline committee, led by Principal, has decided to confiscate your mobile phones if you are found to have engaged in any kind of malpractice during the internal assessment. This is in an effort to enforce discipline during the assessment process.

PRINCIPAL CITY ENGINEERING COLLEGE Kanskapura Main Road, Bangalore-560081.



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#### 07/05/2024

- مدما الله (در العلم)

# 1<sup>st</sup> INTERNAL ASSESSMENT SCHEDULE - 2<sup>nd</sup> SEMESTER

Date	Time		Course Code	Course
	10.00am	P-CYCLE	BMATS201	
15/05/2024 (Wednesday)	- 11.00am	C-CYCLE BMATS201/BMATE201/ BMATC201		Mathematics-II for CSE Stream Mathematics-II for CSE Stream/Mathematics-II for EESI
	1.00pm-	P-CYCLE	BPWSK206	/Mathematics-II for Civil Engg Stream
	2.00pm	C-CYCLE	BPWSK206	Professional writing skills in English Professional writing skills in English
16/05/2024 (Thursday)	10.00am - 11.00am	P-CYCLE	BPHYS202	Applied Physics for CSE Stream
		C-CYCLE	BCHES202/ BCHEC202/ BCHEE202	Applied Chemistry for CSE Stream/ Applied Chemistry for Civil Engineering stream/
1999-1999-1999-1999-1999-1999-1999-199	1.00pm-	P-CYCLE	BETCK205H	Introduction to Internet of Things (IoT)
		C-CYCLE	BESCK204C	Introduction to Electronics Communication
				BESCK204D + Civil Students
17/05/2024 (Friday)	11.00am	C-CYCLE		
	1.00pm-	P-CYCLE	BPOPS203	Principles of Programming Using C
	2.00pm	C-CYCLE	BPLCK205B	Introduction to Python Programming

\*Note: 1. Changed Timings

2. IA for Courses not listed here will be conducted during 2<sup>nd</sup> IA

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CITY ENGINEERING COLLEGE

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08/05/2024

2nd SEMESTER- 1st INTERNAL ASSESSMENT

FACULTY INVIGILATION DUTY ALLOTMENT

			FACULTY INV	IGILATION	DUTY ALLO	TIVICIAL			1	
			15/05/ (Wedne			/2024 sday)	1	5/2024 iday}	Fotal	Signature
SI.No	NAME OF THE FACULTY	Department	10.00am – 11.00am	1.00pm- 2.00pm	10.00am – 11.00am	1.00pm- 2.00pm	10.00am 	1.00pm- 2.00pm	of Dutles	
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	Mrs. Rekha R	MAT		ABO	1	AGOOD	1~7	11	2	
2		MAT	A3		4805		1801	Visos	4	
3	Mrs. Anitha C V		A		ADA		ADULY	120.0	4	
4	Miss. Janavi R	MAT	A					neus B.	4	1
5	Ms. Bhavitha B G	MAT	A305		Bass	10Az	ALOSA	100 all		
6	Ms. Meghana D	HS		A304	0	1005		-	2	
7	Mrs. Swaroopini B S	HS	A3020-	A300	A107		A. 27		4	
8	Mr. Vishvakiran R. C.	ECE	A305	A302	A105		PA106		4	
9	Mr. Gopikishan J	ECE	ABOZ	A107	A1050		A105		9	
10	Mr. Mahesh Basavaraj	AIML	AOL	6108	6104	1	×104		-4	
11	Mr. Harsha Vardhan U	ME	A10605	AND	AMAN	-		SAT !	4	
12	Mr. Anil Kumar R	ME	A105 D	A104		ABOND	/ 1	ALOS	-4	

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15	Ms. Spoorthi M	CSE	A10	AOPAL	Salda	10000	4	
16	Ms. Monisha G B	CSE	4007-	035	AND		3	
17	Mrs. Navana R K	ISE	ADOR	A005	A105			0.0-044-00
18	Mrs. Nayana H I	ISE	A005	A004	A102		5	-
19	Wir Mathivanan M	ISE	ADD	- A008m	AG	672	3	
20	Mr. Dinesh	РНҮ	A00.00	J-1007			4	7-21/100
21	Mr. Sadashiva	CHE	for the second	A307 - A800	10	09 A - A1087	- 4	-

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7	1CE23AI047	8		21	1CE23AI054	22	35 1CE23A1061 36
9	1CE23AI048	10		23	1CE23AI055	24	37 1CE2 38
11	1CE23AI049	12		25	1CE23AI056	26	39 1CE 40
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3	1CE23IS002	4				20	
5	1CE23IS003	6		19	1CE23IS011		
7	1CE23IS004	8		21	1CE23IS012	22	
	1CE23IS005	10		23	1CE23IS013	24	
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S. C. Black Beach Section &

Ø Internals

PRINCIPAL CITY ENGINEERING COLLEGE Kanakapura Main Road, Bangalore-560061

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CEC

May 2024

-	Civil / Electronics and	communication engineering	
11 \$	EMESTER- SECTION: C -	Chemistry Cycle - FIRS	T INTERNAL TEST
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		DATE/SUBJE	and a second
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No.	USIN	Morning	Afternoon
		BMATE201/ BMATC201	BPWSK206
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2	1CE23CV002	havarela.R	Lavansa. R
3	1CE23EC001	A Joy Kumord, R	Aloy Long M.D.
4	1CE23EC002	(AB	-ABSENT-
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9	1CE23EC017	Ang Territha	Jeenitha.
.0	1CE23EC018	total Inter	Toret
1	1CE23EC019	Aster Karen	Kar
	No. of Students Present	19	19
	No. of Students Absent	02	02
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PRINCIPAL CITY ENGINEERING COLLEGE Kanakapura Main Road, Bangalore-560061

Pace 8 of 10

	Basartment of Chemistre II o			
61 - <b>X</b>	Department of Chemistry II Semester Applied Chemistry for CS Stream Max. marks:2			
(511D) (C.a.b.	: Applied Chemistry for CS Stream Max. marks:2 code: BCHES202 Duration:11	5M		
	FIRST INTERNAL Pration: 1ho	r(10)	00-11	101
J. P.84 4 5	Note:- Answer live questions, choosing one from each Questions			10)
Q.N		part.		
in states	Post A	Marks	CO's	5
Ι.	Define corrosion? Explain Electrochemical theory of corrosion taking iron as an example?			
	iren as an example?	5	CO3	TI
2.	Explain polyner electrolyte membrane electrolysis (PEM)?	1		1
۵.	Expirit july in the restriction of the restriction	5	C03	
	PART-B		1 COS	I
	Wastersphere soltane cells? Explain the construction working of solar			_ <u>_</u> ,
	· · · · · · · · · · · · · · · · · · ·	5	CO3	TL
14	Write a note on anodization?	L	L	
1-11	DA THE A	5	000	-
15	PART-C Define Ion selective electrode? Explain construction and working of		CO3	L
L	Class electrode?	5	CO3	I
[6.	OR		005	
n Ma j	Explain the application of conductometry in the estimation of weak			
8+		5.	CO3	L
7	EMF of the cell A MARNO (0 001) ART-D		L.	$\bot$
L	EMF of the cell Ag/AgNO3 (0.001M)// AgNO3 (XM)/Ag is 0.0659V	5	CO3	TT
			COS	L
- C-	A LINE D'ASC Shart C LARS			1
	mars of period it was found to experience a weight loss of 375g due	5	CO3	LS
	to corrosion. If the density of brass is 8.73g/cm <sup>3</sup> , calculate CPR in			
<u></u>		1		
	Explain the conduction mechanism			L
he was	Explain the conduction mechanism in polyacetylene through	5	CO4	L3
	Define Mr. M.W. In a polymer sample 100 molwculews have g/mol and 250 molecules have molecular mass 104			
	melecular mass $10^{5}$ g/mol. 200 molecules have molecular mass $10^{5}$ g/mol. 200 molecules have molecular mass $10^{4}$ $M_{\odot}$ , $M_{\odot}$	5	CO4	LS
0-	Manual Marchan		•	
	pp y the basic concepts of chemistry to describe the methods of engineering processes.	1		1

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PRINCIPAL CITY ENGINEERING COLLECE Kanakapura Main Road, BANGALORE - 560 061

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CITY ENGINEERING COLLEGE DEPARTMENT OF <u>Chamicing</u> SCHEME FOR VALUATION Internal Test <u></u>

1.60

Semester & Section II, A, B. CAIML & Is ].

Question No.	Details of the answer	Date: 16/05/2	4
1 -	Expl. + reactions.	Marks Distribution	Total
	Amade: - Fr Fet + 2e-	2+3	Marks Sm
	Acrated & neutral, 02+240+40 - 4041 Decurated & neutral, 2420+ 20 - 245+04 Decurated & acidic, 24f+20 - 245+04		
·2·	Anoder- In metal couled on porous "c'. Colloder- "Pi- metal couled on porous c'	2+2+)."	
	Electril glo solid Porous Polymu electridyte made of NAFION		çm.
	Annalis (120 + - 3 ± 0 + 2+1++2e Carlinds, allif fall - + +2 Carlinds i realtime + -fig.		• 
en:	1 10 car + Ali + E=hD + Erfl.	1+1+1+2	. CW-
4.	Fig. + Enpl.	174	SM-
	Del + construction + working. ED = Egincz - REINCZ:	1+2+2	SM
	- STING + RTINCL.		
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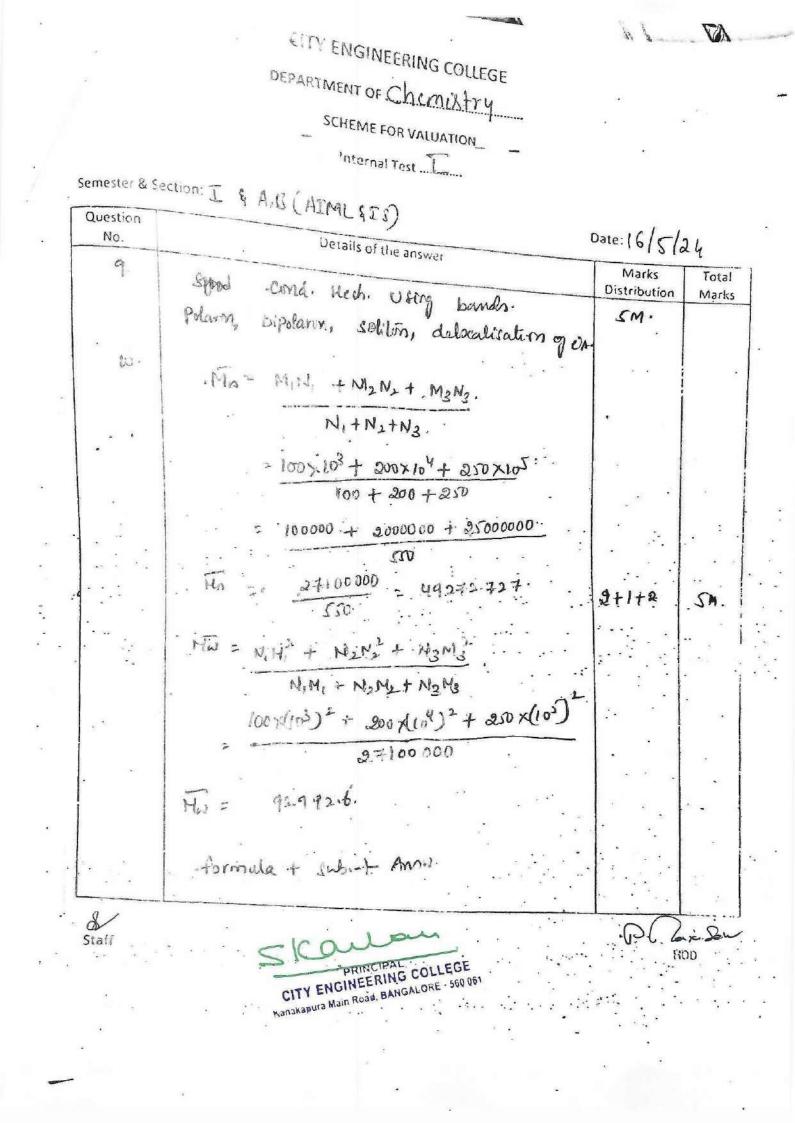
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CITY ENGINEERING COLLEGE DEPARTMENT OF <u>Chemisby</u> SCHEME FOR VALUATION

Semester & Section: IL & AB (ASML 4JS)

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Sub Code: BCH					
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2 Test 2 - 16	<u>ki</u>		25	21.	- 15 h:
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CITY ENGINEERING COLE - 560 06 Kanakapura Main Road, BANGALORE - 560 06