



## 2.2.2. Quality of internal semester Question papers, Assignments and Evaluation (20)

### 2.2.2.1. Process for Internal Semester Question Papers

- The department conducts two internal assessment tests and one model exam as per the schedule given in the department calendar.
- Faculty will set questions based on bloom`s taxonomy.
- The question paper contains based on Pondicherry University QP pattern. It has two parts: Part-A contains ten 2 marks ( $10 \times 2 = 20$ ) and Part-B five 11 marks ( $5 \times 11 = 55$ ), Total=75.
- Before the internal test the standard of the question is checked by Internal Quality Assurance Cell (IQAC) which comprises of HOD and senior faculties.
- Each test covers 2 units of the syllabus.
- The duration of the CIA-I, CIA-II and model exam is 3 hours. The question papers are set in such a way that the students are able understand and analyze a topic.
- After completion of each internal test the answer scripts are checked for the allocation and awarding of marks.
- After the completion of unit assignment questions will be given to students, and student has to write it & submit within a week and each question is mapped with CO's. So the students will be able to understand course outcome of particular subject.
- If the average mark obtained by the student is less than 37 then extra test is conducted to increase their internal assessment mark.
- Each question is mapped with CO's PO's & Blooms taxonomy (BT) levels. Student who answered to particular question is taken into consideration and average of all students marks is taken for CO -PO attainment.



**sri venkateshwarara**  
College of Engineering & Technology  
ASPIRE TO EXCEL  
Ariyur, Puducherry-605 102.

Ref.No: SVCET/CIRCULAR/2024-2025/1622 Date: 11/09/2024

**CIRCULAR**

<b>ORIGINATOR:</b> THE PRINCIPAL	<b>CIRCULATED TO:</b> HoDs & Exam Cell Coordinators
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This is to inform that, CIA - II Exam will be scheduled from 16/09/2024 to 21/09/2024 [Timing 9.30 a.m. to 12.30 p.m.] for II, III & IV Year students. All the Faculties are requested to prepare Question Paper and submit one set of Question paper on or before 13.09.2024 (Friday) to the corresponding Department Exam coordinators.

The Question Paper split up for II year is given below:

Part A: 2 Marks : 10 x 2	20 Marks
Part B: 8 Marks : 8 x 5	40 Marks
<b>Total</b>	<b>= 60 Marks</b>

The Question-Paper split up for III & IV year is given below:

Part A: 2 Marks : 10 x 2	20 Marks
Part B: 11 Marks : 11 x 5	55 Marks
<b>Total</b>	<b>= 75 Marks</b>

DEAN-ACADEMICS: [Signature] 11/9/24

VICE PRINCIPAL: [Signature]

PRINCIPAL: [Signature]

Copy to: The Chairman through E-Mail  
Dean-IQAC

Circulated to:

- All the HOD & HOD i/c.
- Office Manager [Signature] 11/9/24

S.No	Designation	Signature
1	HOD/MECH	[Signature]
2	HOD/CSE	[Signature]
3	HOD/ECE	[Signature]
4	HOD/i/c /EEE	[Signature]
5	HOD/i/c /BME	[Signature]
6	HOD/i/c/S&H	[Signature]
7	HOD/i/c/MBA	[Signature]

Dr. K. Arada - [Signature]  
S. Vinita - [Signature]  
D. N. ABIRAM - [Signature]  
V. SARANYA - [Signature]  
G. PAGESWARI - [Signature]

Subbaraya - [Signature]  
S. Parvitha - [Signature]  
S. D. [Signature]  
M. H. Lavanya - [Signature]  
U. [Signature]

**Fig. 2.2.1 (a) Circular – Internal Assessment**

**2.2.2.2. Quality of Question Paper**

- For each subjects, question bank is prepared.
- While setting the question paper all previous university exam papers are taken into consideration. According to blooms taxonomy, the level of toughness the questions are prepared (viz., analyzing the problems, implementation of modern tools, formulating the problems etc).
- The questions will be of three categories:
  - One third of the questions is straight and can be answered by all students.
  - One third of the questions need analysis and use of content covered as per syllabus.
  - Remaining one third of the questions is not straight. Certain amount of thinking, analysis



and mathematical knowledge are required to resolve.

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P. U. A. Faculty, 10, Gandhi Road, Ariyur, Puducherry - 605 102

**ASPIRE TO EXCEL**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

YEAR/SEM : IV/III  
DATE : 21-10-2023

**CIA - I EXAM**

MAX. MARKS : 75 marks  
DURATION : 3 hours

**CS T33-Object Oriented Programming and Design**

**SECTION -A (20 Marks) - PART - I (10 x 2 = 20 marks)**

**Answer all the questions**

1.	What is meant by object oriented programming?	K1	CO1
2.	What are the disadvantages of conventional programming?	K1	CO1
3.	Write short notes on while loop.	K1	CO1
4.	Write down the uses of for loop.	K1	CO1
5.	What is meant by function overloading?	K1	CO1
6.	Write short notes on constructors.	K2	CO2
7.	What is meant by copy constructor?	K2	CO2
8.	Write about type conversion.	K2	CO2
9.	What is meant by inheritance?	K2	CO2
10.	Write short notes on overloading member function.	K3	CO2

**SECTION - B (55 Marks) - PART II (5 x 11 = 55 marks)**

**Answer the following questions**

		Marks	
11.	Explain in detail about switch case statement with help of a C++ program.	11	K1 CO1
(or)			
12.	Explain in detail about data hiding and encapsulation with the help of a program.	11	K1 CO1
13.	Explain the key concepts and advantages of OOPD.	11	K1 CO1
(or)			
14.	Explain control structures in C++ with the help of programs.	11	K1 CO1
15.	Discuss about formatted and unformatted console I/O operations	11	K1 CO1
(or)			
16.	Explain in detail about function arguments in C++ with the help of a program.	11	K1 CO1
17.	Describe in detail about constructor and destructor with the help of a program.	11	K2 CO2
(or)			
18.	Discuss in detail about unary and binary operator overloading with the use of suitable programs.	11	K2 CO2
19.	Explain in detail about virtual base class with the help of a program.	11	K2 CO2



17.	(i)	Write in detail about doubly linked list and operations performed on it with example.	11	K2	CO2
(Or)					
18.	(i)	Give the applications of stack and explain it in detail.	11	K1	CO2
(Or)					
19.	(i)	Write in detail about priority queues and operations performed on it with example and algorithm.	11	K2	CO2
(Or)					
20.	(i)	Explain circular linked list and various operations performed on it.	11	K2	CO2

**Blooms Taxonomy:**  
K1 – Remember, K2 – Understand, K3 – Apply, K4 - Analyze, K5 – Evaluate, K6 – Create

**Mapping of Course Outcome (CO) to Programme Outcomes (PO)**

**Department of Computer Science and Engineering**

Course COs	Mapping with POs											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H	M	M	H	M	-	-	-	-	-	H	M
CO2	H	H	H	M	H	-	-	-	-	-	M	M

H - High Correlation, M - Medium Correlation, L - Low Correlation

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ENGINEERING & TECHNOLOGY,  
ARIYUR, PUDUCHERRY - 605 102.

**Fig. 2.2.1 (b) Sample Assessment Question Paper**

**Impact Analysis:**

- The determination to adapt to Bloom’s taxonomy for maintaining the quality of the question papers has greatly improved the ability of the students to apply and analyze solutions for tricky and challenging questions. The institution has witnessed an enhancement in the student’s problemsolving ability, imagination, and creativity.



### 2.2.2.3. Assignment Questions

Each subject 5 assignments will be given to the students. Each assignment carries 10 marks, the average of all five assignments will be consider as final mark. Assignment questions mapped with respective Cos. The evaluation of the assignment will be done as per the rubrics framed by the respective course-coordinators. Assignment questions are chosen to explore the understanding capability, analytical ability and creativity of the students.

**Table: 2.2.1 (a) Rubrics for Assignments (Out of 10 Marks)**

Criteria	Weightage	Description
Content Quality	4 marks	Assesses the depth of research, originality, and adherence to the topic.
Structure and Organization	2 marks	Evaluates the logical flow, coherence, and clarity of sections (introduction, body, conclusion, references).
Presentation Format	1 mark	Checks adherence to formatting guidelines (font size, margins, citations, etc.).
Timely Submission	1 mark	Ensures the assignment was submitted on or before the deadline.
Creativity and Effort	2 marks	Judges the uniqueness of ideas, innovative approach, and the overall effort invested in the assignment.

### Rubrics for Seminars (Out of 10 Marks)

Criteria	Weightage	Description
Content Relevance	3 marks	Covers the depth, accuracy, and relevance of the information presented to the topic.
Presentation Skills	2 marks	Assesses clarity of speech, confidence, body language, and engagement with the audience.
Resources	1 mark	Evaluates the use of slides, videos, or other resources to enhance understanding.
Time Management	1 mark	Checks whether the presentation is completed within the allotted time frame.



Question Handling	2 marks	Measures the ability to answer audience questions clearly and accurately.
Team Coordination	1 mark	Examines the collaboration and equal participation among team members (only for group seminars).

COMPUTER

NETWORKS

ASSIGNMENT-2

Azul Jenifer.A

III Year

CSE.

96  
A



### SLIDING WINDOW PROTOCOL

\* The sliding window is a technique for sending multiple frames at a time.

\* It controls the data packets between the two devices where reliable and graded delivery of data frames needed.

\* It is also used in Transmission Control Protocol (TCP).

\* The sequence numbers are used to find the missing data in the receiver.

\* The purpose of sliding is to avoid duplicate data, so it uses the sequence numbers.

Types of sliding Window Protocol:

(i) Go-Back-N ARQ

(ii) selective Repeat ARQ

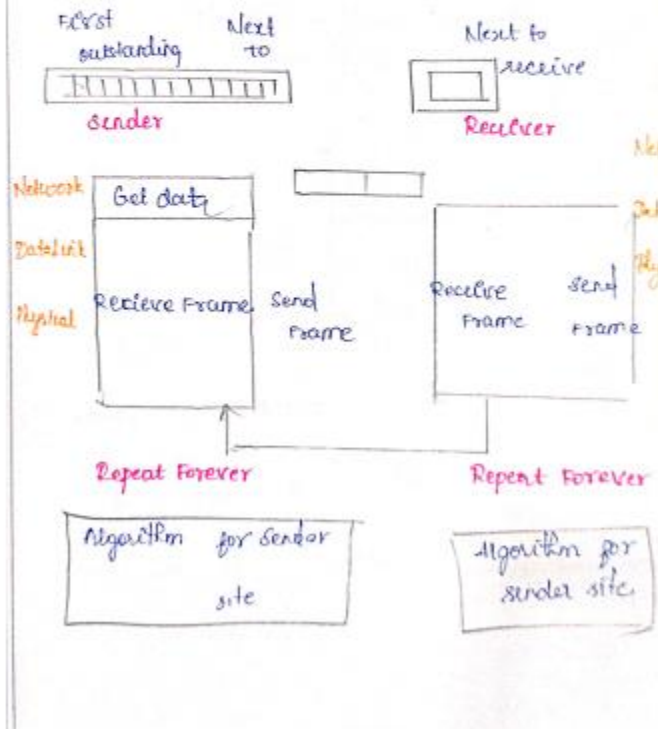


Selective Repeat ARQ:

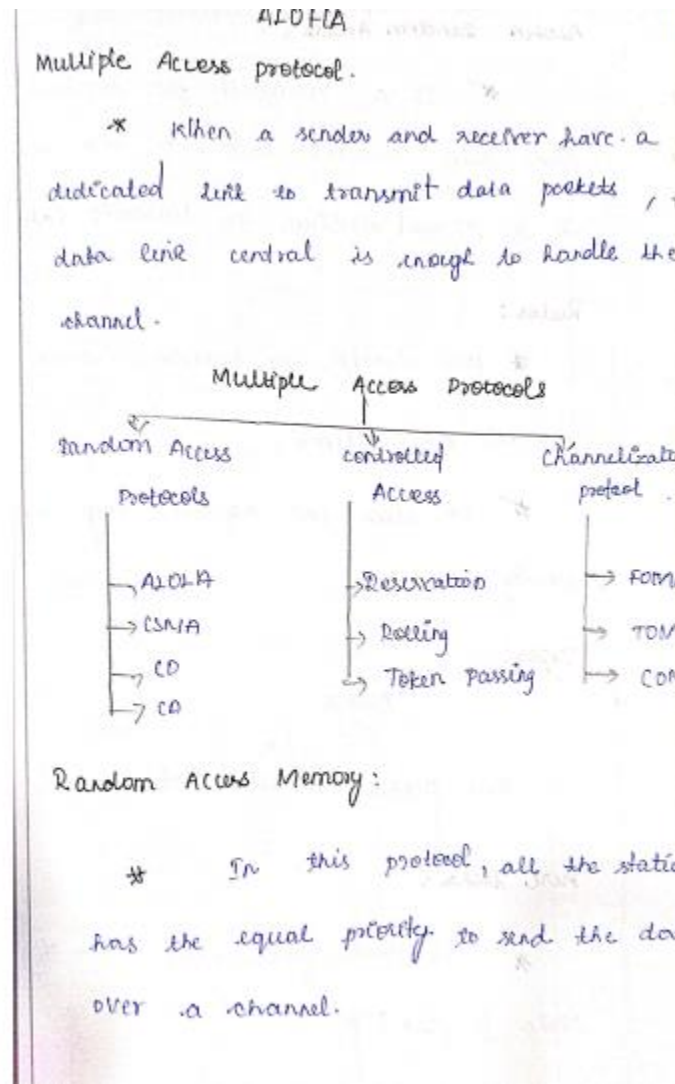
\* Selective Repeat ARQ is also known as the selective Repeat Automatic Repeat Request.

Request:

\* It is a data link layer protocol uses a sliding window method.







### Sample Assignment

#### 2.2.2.4. Evaluation

- After every internal assessment test, faculties explain the solution of the questions in the class which will enable them to perform well in the final examination.
- For any genuine reasons, if a student is unable to perform well in the given assessment tests improvement test is conducted to him/her.
- Based on the marks obtained from all the internal exams, attendance percentage and assignments internal marks will be awarded.
- To improve internal marks students have to take additional tests and assignment in the concern



subjects Mark weightage •

- 25 marks are allotted for internal assessment for a theory paper.
- Out of 25 marks 20 marks are awarded for the internal tests based on the performance of the student in the class test, CIA-I and CIA-II internal, model examinations and the remaining 5 marks are awarded for class attendance. The distribution of 5 marks for class attendance and the details of distribution of 20 marks for internal assessment are as follows:
  - 5 marks for 95% attendance and above
  - 4 marks for 90% attendance and above but below 95%
  - 3 marks for 85% attendance and above but below 90%
  - 2 marks for 80% attendance and above but below 85%
  - 1 mark for 75% attendance and above but below 80%



**srivenkateshwaraa**  
College of Engineering & Technology  
ASPIRE TO EXCEL  
Ariyur, Puducherry-605 102. ISO 21001

**Department of Computer Science and Engineering**  
Academic Year : (Odd-Sem)  
III Year - Marklist  
CIA-I - Examination

Head Of The Department : Dr.N.Selvi  
Class Advisor : Ms.S.sridha  
Year/Sem : III/V  
Batch : 2021-2025  
Section : A  
Max Mark : 75  
Class Strength : 56  
Min Mark : 38

Srno	Register Number	Student Name	Database Management System	Computer Networks	Operating System	Software Engineering	Language Translator
1	21TB0093	Ashok G	29	50	59	38	38
2	21TB0096	JAYA PRABHA D	50	45	61	61	52
3	21td0601	ABINAYA, V	47	50	56	64	41
4	21td0602	AHFIFA, J	36	38	38	38	38
5	21td0603	ajal	AB	38	32	25	32
6	21TD0604	Azwintham s	27	38	AR	28	38
7	21TD0605	DHANAGESARANIN	29	50	38	46	38

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Srno	Register Number	Student Name	Database Management System	Computer Networks	Operating System	Software Engineering	Language Translator
8	21td0606	DATCHANY R	40	56	42	56	39
9	21td0607	Deepiga.S	38	50	48	50	58
10	21TD0610	Devaseni.S	38	42	42	57	36
11	21TD0611	DINESH G	20	31	32	38	35
12	21td0612	DINESH KUMAR, V	38	38	40	41	41
13	21td0613	Durgadevi R	40	48	43	66	51
14	21td0614	GOPKISHANAN S	40	28	38	40	31
15	21TD0615	Gowigana.K	45	45	45	48	56
16	21td0616	gunala	38	58	39	41	38
17	21td0617	HARAGANAN S	39	50	45	58	50
18	21TD0618	HARAHARAN R	43	42	42	58	40
19	21td0619	HARINI S	49	32	37	50	45
20	21TD0620	Haniprasith P	52	38	55	64	40
21	21td0621	Jegadheeswar.P	43	40	38	41	31
22	21td0622	Kaliothwan.p	42	40	45	41	44
23	21td0623	Azwintham kumar chawdhary K	51	38	47	58	52
24	21TD0624	KARTHIKEYAN.C	44	45	43	51	49
25	21TD0625	Lakshmi M	56	46	50	62	51
26	21TD0626	LOGESH S	38	25	AR	38	33
27	21td0627	Madhan.S	46	38	38	38	8
28	21TD0628	Mudhumani, T	54	60	53	70	54
29	21td0629	NAHSIFA, J	AB	28	35	38	35
30	21td0630	NATARAJ, V	49	45	45	49	56
31	21TD0631	Njanthan P	56	38	37	52	39

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Sr No	Register Number	Student Name	Database Management System	Computer Networks	Operating System	Software Engineering	Language Translation
32	21TD0632	NIRANJANA R	56	62	48	63	61
33	21TD0633	PRIYADHARSHINI K	53	50	51	60	55
34	21TD0634	A.RASIVATHUL BASEERA	41	56	54	66	58
35	21TD0635	RAGUL VISHNU R	46	39	42	44	43
36	21TD0636	RITHIGA J	40	50	53	55	49
37	21TD0637	SABARINATHAN S	43	56	48	63	49
38	21TD0638	Santhosh V	41	59	53	60	53
39	21TD0639	SARAN C	43	49	39	46	45
40	21TD0640	Sathesh M	40	39	42	39	56
41	21TD0642	shamini p	46	56	54	48	60
42	21TD0643	SHANMUGANATHAN V	49	46	49	51	53
43	21TD0644	shamila p	47	58	51	58	38
44	21TD0645	Shanveeh R	44	38	41	45	42
45	21TD0646	SRIDEVI LAVANYA M	44	49	42	61	50
46	21TD0648	SUMAN S	49	60	52	62	44
47	21TD0649	swetha.M	48	65	51	50	41
48	21TD0650	Thamizhchellian k	20	30	32	39	29
49	21TD0651	Thengamani A	27	30	33	41	38
50	21TD0652	venkataramanan S	40	56	42	41	52
51	21TD0653	VIJAYALAKSHMI B	51	50	47	66	38
52	21TD0654	vijayaraju	41	30	38	39	44
53	21TD0655	VIJAYASRI R	55	49	49	69	61
54	21TD0656	VINDHINIL R	60	58	43	63	69
55	21TD0657	Vidhya A	46	57	45	63	55

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Sr No	Register Number	Student Name	Database Management System	Computer Networks	Operating System	Software Engineering	Language Translation
56	21TD0601	vidhya b	34	35	48	49	38

Particulars	Database Management System	Computer Networks	Operating System	Software Engineering	Language Translation
Date	26/09/2023	27/09/2023	26/09/2023	28/09/2023	25/09/2023
Total	55	58	56	56	56
Present	54	56	53	56	55
Absent	2	0	3	0	1
Passed	47	42	46	54	44
Failed	9	14	10	2	12
Pass Percentage	83.93%	75.00%	82.14%	96.43%	78.57%
Staff Signature					

EXAM CELL COORDINATOR

HOD

DEAN

PRINCIPAL

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- Fig. 2.2.1 (d) Sample Evaluation



**SRI VENKATESHWARAA COLLEGE OF  
ENGINEERING & TECHNOLOGY**

(A Unit of Ramachandra Educational Trust)  
Ariyur, Puducherry - 605 102.

Read the Instructions Given Overleaf Carefully Before Filling in the Title Page.  
(To be filled in By the Candidate)

Name / Register Number : B. Anitha R. / 201D0808  
 Program / Branch : Computer Science And Engineering  
 Subject Title : Computer Networks  
 Subject Code : CS152 (CIA - I)

Year / Semester : IV / IV  
 Date & Session : 08/11/2022 & F/N  
 No. of Pages Used :

All Particulars Given are Verified  
 Signature of the Hall Supdt., with Date  
 Name of the Hall Supdt.,

PART-A		Question No.	PART-B				Total
Question No.	Marks		Marks				
			i	ii	iii	iv	
1.	2	11	a	7			
2.	2		b				
3.	1	12	a				
4.	2		b				
5.	1	13	a	8			
6.	1		b	5B			
7.	2	14	a	7			
8.	2		b				
9.	2	15	a	9			
10.	1		b				
Total	16			36			

GRAND TOTAL  
(IN WORDS)  
Five Two

GRAND TOTAL  
52

Name of the Examiner : A. Anand

08/11/2022

Signature of Examiner  
(With Date)



Router :

- \* Router is a device that forwards data along the network.
- \* Routers are connected to at least two or more LAN or WAN or ISP of it.
- \* Routers are located in gateway where the multi-networks are connected.

3. IP (Internet Protocol)

- \* IP - Internet Protocol is the protocol for internet communication. It uses the datagram to cross the network boundaries.
- \* In the routing function, the IP protocol is used to route data to internet works.



### Physical Media

Physical Media is categorized into two types

- Guided Media
- Unguided Media

#### Guided Media

In this type, the waves are transmitted through the physical solid medium, such as twisted-pair copper wire, coaxial cable etc.,

#### Unguided Media:

In this type, the waves are propagated through the atmosphere and or outer space such as satellite communication links, radio-wave spectrum etc.,

### Transmission Delay

Transmission Delay is defined as amount of time required to push the all packet byte into the network communication media.

$$\text{Transmission Delay} = \frac{\text{Packet Size}}{\text{Bandwidth}}$$



\* Open System Interconnection was developed by the International standard organisation (ISO) in 1984.

\* OSI model is consist of seven layer of operation and each layer are difr. model is assign a particular operation.

\* In this model, each layer is self contained, so that they are perform different task independently.

Layer of the OSI Reference Model.

- i) Application
- ii) Presentation
- iii) Session
- iv) Transport
- v) Network
- vi) Data-link
- vii) Physical





Network:

DEFINITION:

\* Network are defined as the connection of two or more device together to form a network. Network is divided based on their size.

\* The different Types of Network are.

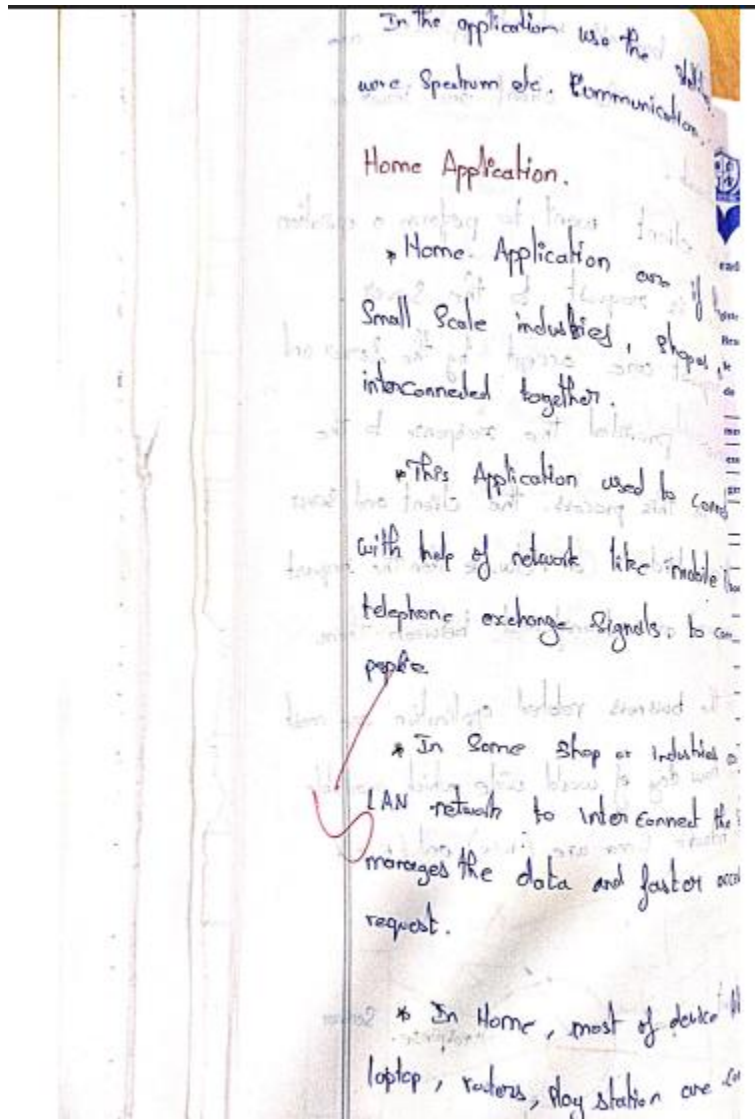
LAN  
PAN  
WAN  
MAN

Local Area Network (LAN):

\* Local Area Network is network connected a two or more device in small local area such as building or office.

\* Local Area Network uses the network connection as twisted wire, coaxial cables etc,

\* Local Area Network (LAN) is simple and inexpensive to build the network and it is extremely faster rate of access time.



### Sample Answer Script

#### Impact analysis:

- Very good results in Internal and External examination.
- Improvement in overall performance of students thereby improving the placement and possibility of students taking up higher studies.