Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Academic Year: 2024-25 Semester-VII

Name of the Program: Electronics & Telecommunication Engineering
Program Code: 627004
Name of the Course: Wireless Sensor Networks **Course Code: BTETOE703A**
Class: Final Year

Innovative Learning

Think-Pair-Share Activity

Date:- 04/09/2024

Time:- 11.30 to 12.30 pm

Number of students:- 55

Details:-

The Think-Pair-Share strategy is an engaging collaborative learning activity designed to enhance critical thinking and communication skills. First, students individually "think" about a given question or problem, formulating their own ideas or solutions. Next, they "pair" with a partner to discuss and compare their thoughts, providing an opportunity to refine their understanding through dialogue. Finally, students "share" their insights with the larger group or class, fostering a collective learning experience. This method encourages active participation, ensures diverse perspectives, and helps build confidence in expressing ideas. It is especially effective in promoting peer learning and fostering a deeper comprehension of the subject matter.

Topic:- Comparison of Mobile Ad-hoc networks and Wireless Sensor Networks

Name: Rushali Thakare
Roll no : 02

- Comparison of mobile Adhoc networks and WSN

Aspect	Mobile Adhoc Network	WSN
Definition	A network of mobile devices that dynamically form a temporary network without any fixed infrastructure	A network of distributed sensor nodes used to monitor physical & environmental conditions
Primary purpose	General purpose communication bet" mobile devices	Data collection & monitoring from the environment
Node type	Nodes are typically more with high processing & power capabilities	Nodes are usually small resource constrained
Mobility	High mobility nodes frequently join & leave the network	Typically low mobility sensor nodes are mostly stationary
Energy efficiency	Energy efficiency is important but less critical than in WSN	Energy conservation is a top priority due to limited power sources
Data flow	Typically bidirectional supporting user driven applications	Mainly unidirectional from sensors to a sink or base station

Dr. Mane S. V.
Course Co-ordinator

HOD

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Innovative Learning

Concept presentation

Date:- 06/11/2024

Time:- 11.30 to 12.30 pm

Number of students:- 15

Details:-

- Different topics were given in group to enhance thinking ability of the students. Students collected information regarding the topic, discussed in group and then presented.

Topics:-

1. Design of Wireless Sensor Networks
2. Security issues in the design of Wireless Sensor Networks
3. Challenges in the design of Wireless Sensor Networks
4. Component selection in the design of Wireless Sensor Networks

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Department of Electronics & Telecommunication Engineering

Academic Year: 2024-25

Course/Subject: Wireless Sensor Networks **Course Code: BTETOE703A**

Class: B. Tech E & TC

Innovative Pedagogical Activities

Mind map:

A mind map is a brainstorming technique used to visually organize information into a hierarchy. They feature one main idea as the central point of the diagram, with subtopics branching out and connecting to supporting ideas.

Mind map diagrams follow a hierarchical structure where the most important ideas are the closest to the center, and each additional tier rolls up to the one before it. This structure helps you see a broad overview of the concept, understand its complexities and connections, and make decisions effectively.

What makes mind maps so powerful is not just the diagrams themselves, but also the process that goes into creating them. The inside-out structure makes it easy to get all your thoughts and ideas down in one place and draw connections between them. They encourage lateral thinking, pushing you to explore and investigate a topic from every angle.

A good Mind Map shows the "shape" of the subject, the relative importance of individual points, and the ways in which facts relate to one another. Mind map activity is assigned to students for the topic PROTOCOLS used in Wireless Sensor Networks.

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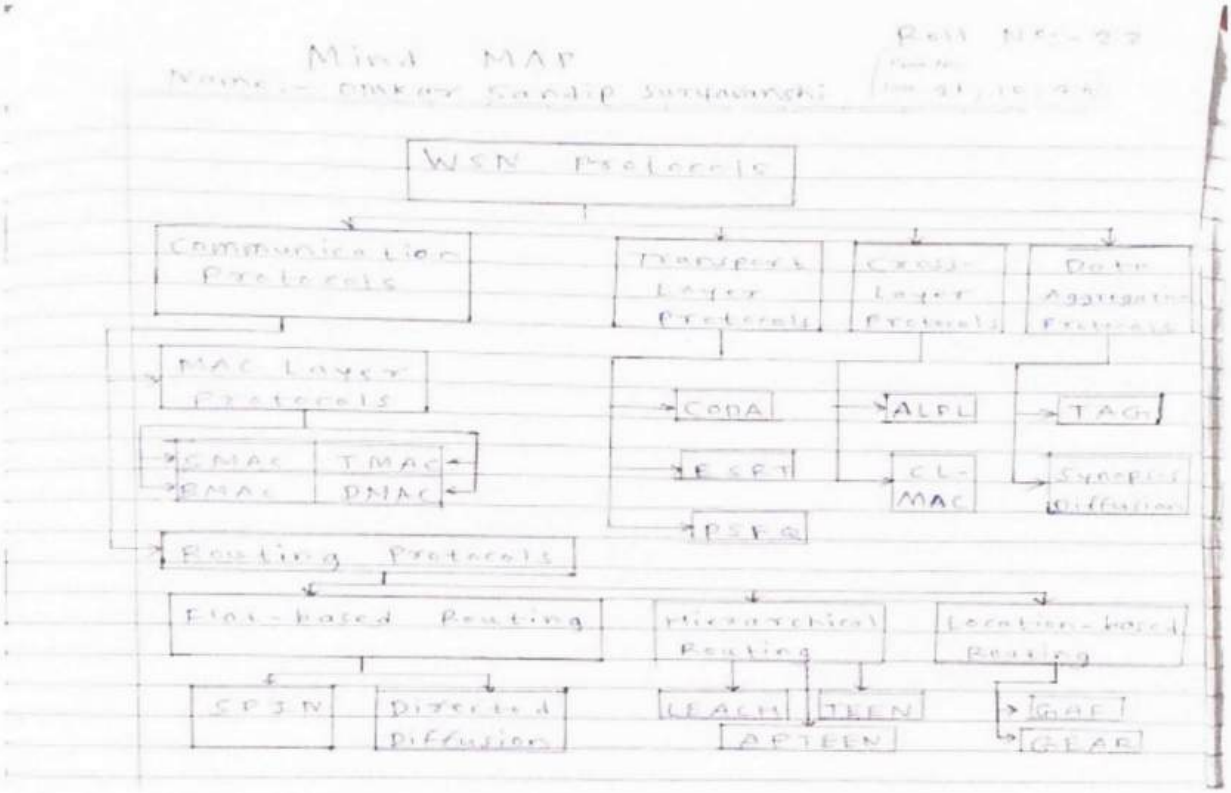
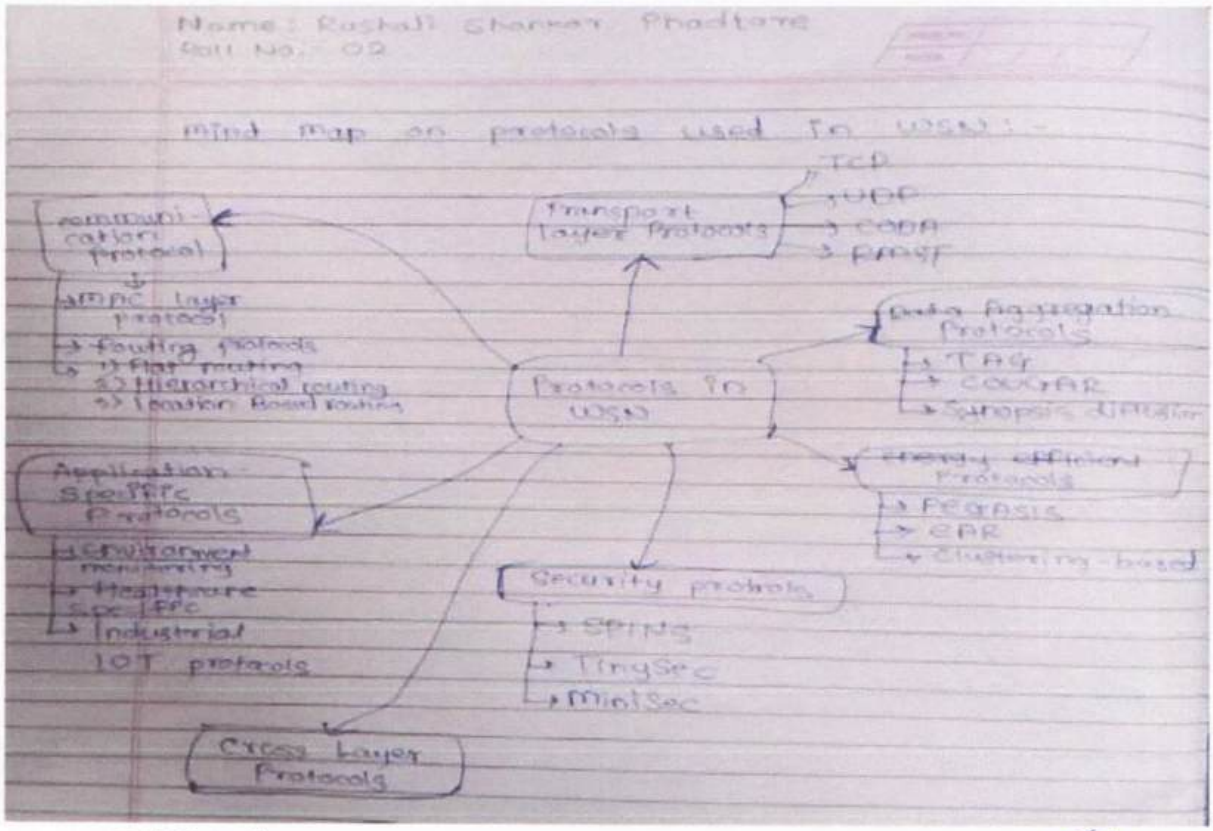
Department of Electronics & Telecommunication Engineering





Dr. Sunita Mane
Course Coordinator

HOD

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Electronics & Telecommunication Engineering

Academic Year: 2024-25

Course/Subject: Electronic Circuits and Devices **Course Code:** BTETC302

Class: S.Y. E & TC

Innovative Pedagogical Activities

Mind map:

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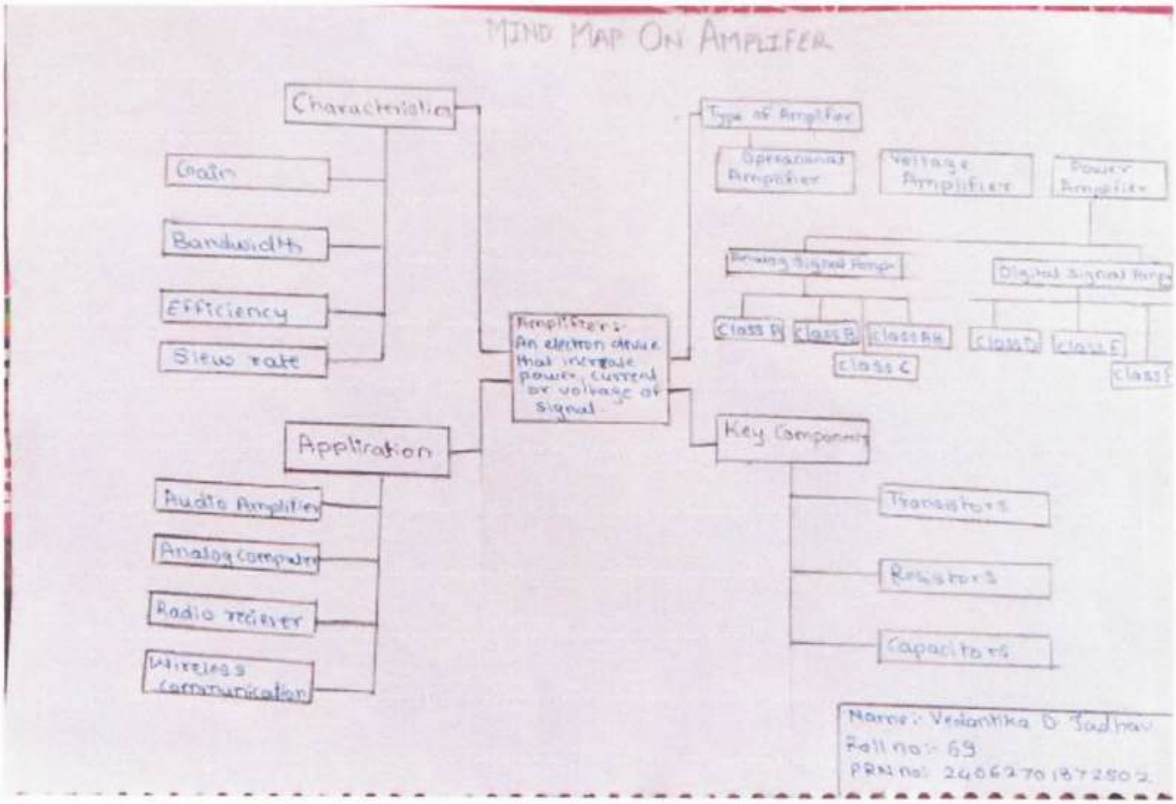
A good Mind Map shows the "shape" of the subject, the relative importance of individual points, and the ways in which facts relate to one another. Mind map activity is assigned to students for the topic Amplifiers and Oscillators.



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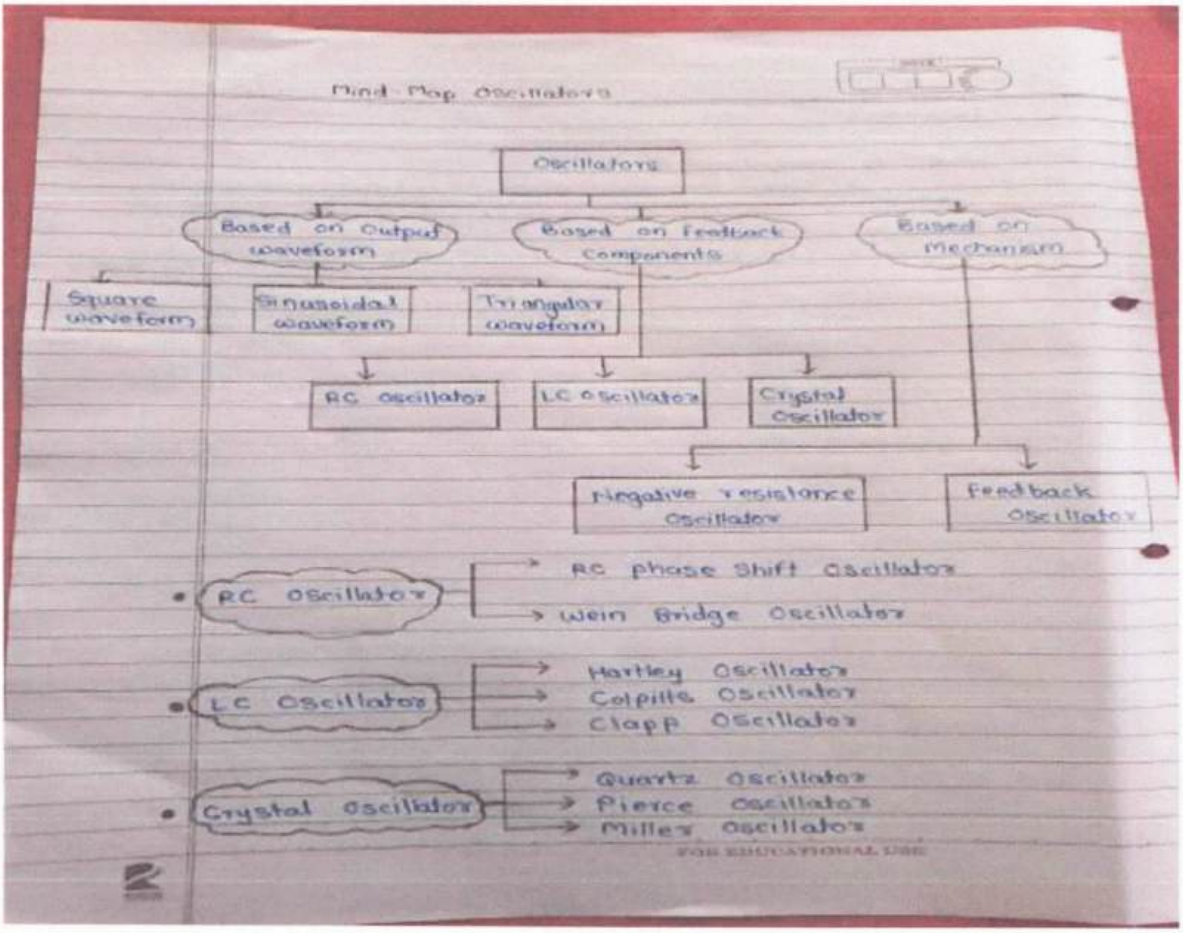

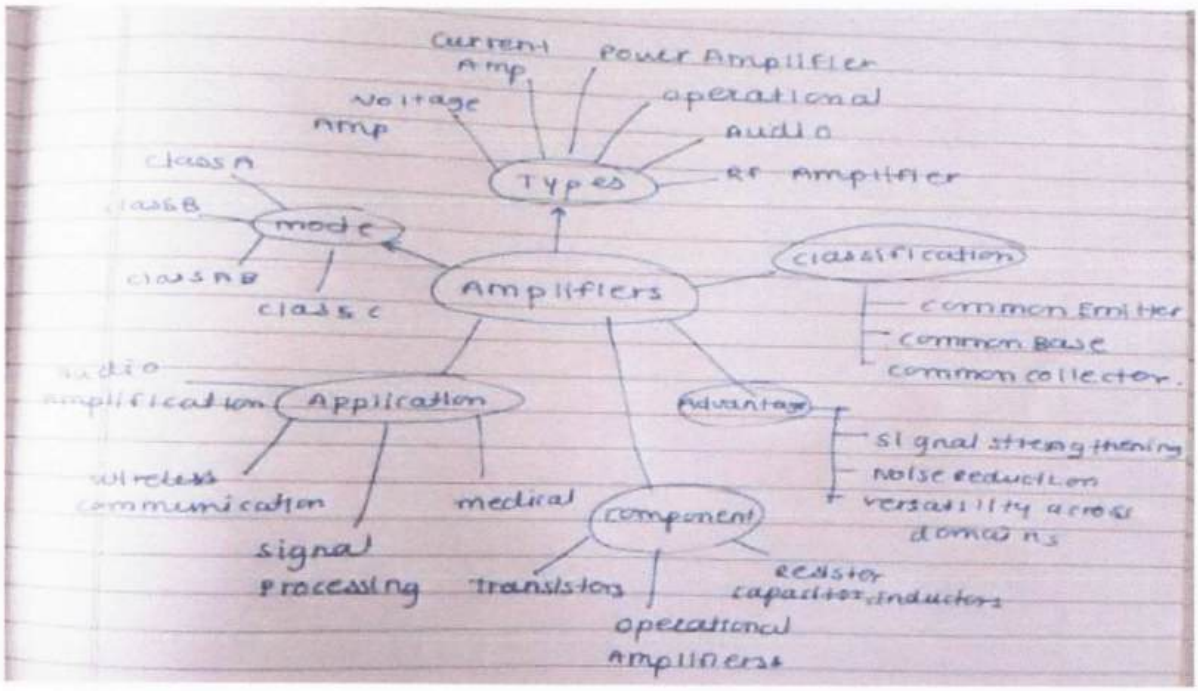

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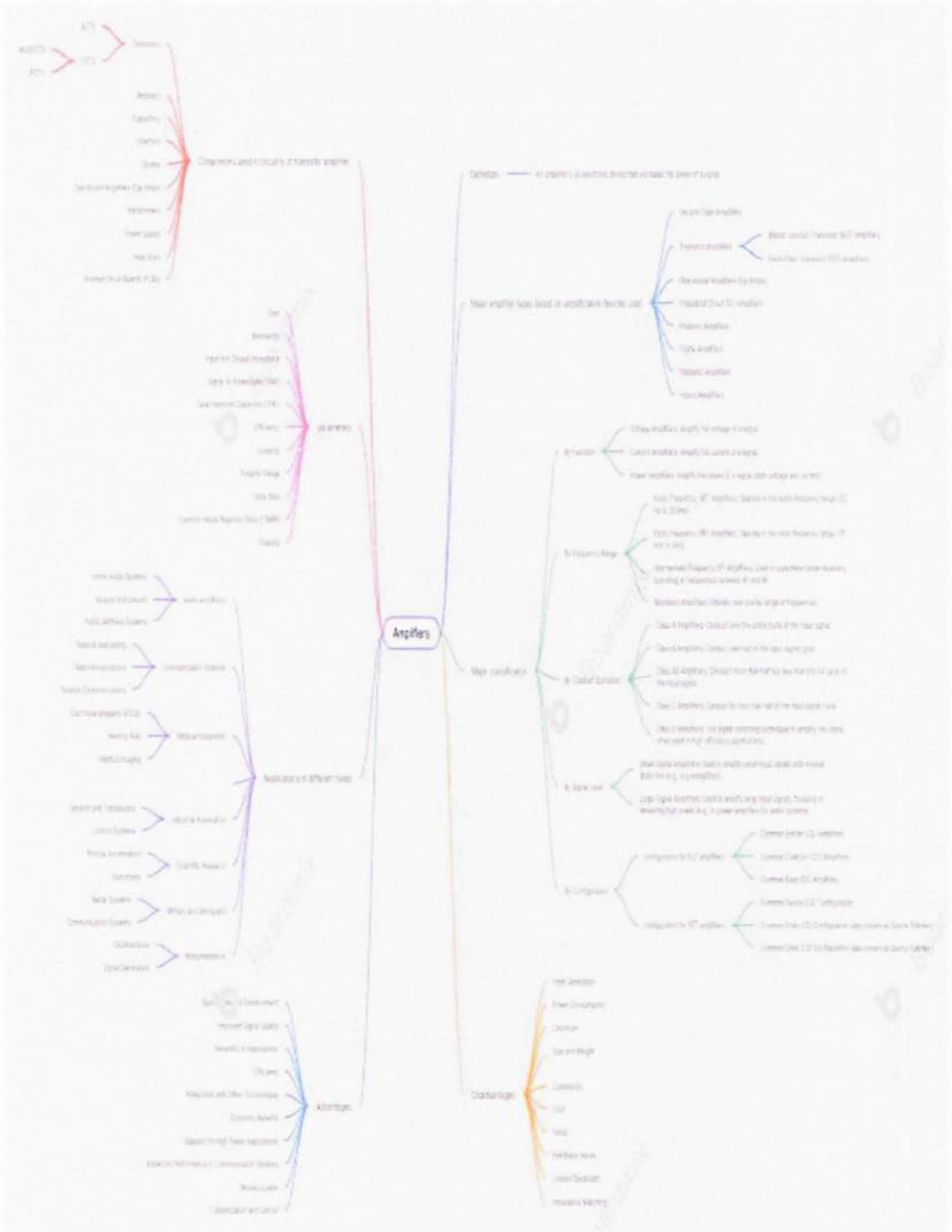

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