ANNEXURE – II

TOPIC: CONCEPT MAP ON DEFECTS OF EYE

Objectives

General Objectives:
To know and understand about:

❖ Human eye.
❖ Types of defects of eye.
❖ Correction of defects of eyes.

Specific Objectives:

❖ Explain the causes of defects of eyes.
❖ Describe the methods for the correction of the eye defects.
DEFECTS OF EYES
Concept Map on Defects of Eyes

1. Eye lens become thick
2. Focal length of eye lens shortens
3. Eye ball is pressed

Normal Eye

Defected Eye

Defect  Two Types

Image formed in front of retina
Focal length of eye lens shortens,
Defect is
Short sightedness or Myopia
Person can see nearer objects clearly

Image formed behind retina
Focal length of eye lens increases
Defect is
Long sightedness or Hypermetropia
Person can see far away objects clearly

Correction for Myopic eye

Correction for Hypermetropic eye

1. Eye lens become thick
2. Focal length of eye lens increases
3. Eye ball elongates

Image is formed in front of retina
Rays are first diverged
Retina
Image is formed

Correction for Hypermetropic eye

Rays are first converged
Image is formed
By using convex lens
TOPIC: CONCEPT MAPS ON SOURCES OF ENERGY

OBJECTIVES

General Objectives:
❖ Understand renewable and non-renewable sources of energy.
❖ To know about primary and secondary sources of energy.
❖ To know different types of energy.

Specific Objectives:
❖ Explain the various forms of energy.
❖ Describe the method of harnessing solar energy.
❖ Explain the characteristics of solar energy.
SOURCES OF ENERGY

Energy

Category

Primary

Secondary

Types

Solid

1. Wood
2. Coal
3. Cow dung cakes

Liquid

1. K-oil
2. Petrol
3. Diesel

Gaseous

1. Biogas
2. LPG/CNG
3. Coal gas
4. Water gas

Groups

Renewal

Non-renewal

1. Can be used again 
& again
2. Non exhaustive
3. Non Polluting
4. Cheap & easily available

1. Can be used once
2. Exhaustive
3. Polluting
4. Costly

Energy Sources

Renewable

- Solar energy from sun
- Hydro energy from water
- Wind energy from flowing air
- Geothermal energy from earth

- From tides
- From temp. gradient
- From Bio, mass

Non-Renewable

- Coal (Legmite, Bituminous, anthracitic)
- Petroleum (LPG, CNG)
- Natural gas
**Wind Energy**

**Characteristics**
1. Cheap
2. Easily available
3. Non-polluting
4. Available throughout
5. Renewable source

**Uses**
1. Drying Clothes
2. To move boats
3. To separate Chaff from grains

**Harnessing by two ways**

**Direct Methods**
1. Solar Cooker
2. Solar water heater
3. Solar Furnace

**Indirect methods**
1. Coal
2. Petrol
3. Wind energy

**Solar Energy**

**Characteristics**
2. Cheap
3. Early available
4. Non-polluting
5. Available throughout
6. Renewable source

**Harnessing by two ways**

**Direct Methods**
1. Solar Cooker
2. Solar water heater
3. Solar Furnace

**Indirect methods**
1. Coal
2. Petrol
3. Wind energy