

## CHAPTER 26

### THE CAMERA

**Meaning:** A camera is a box which is black inside and allows the right amount of

#### WORKING OF A CAMERA

The concept of film cameras has become old. Now, digital cameras have taken place of film cameras. The main work of camera is to control the entry of light into it. This is done by two components:

- **The Shutter**
- **The Aperture**

Both these act as controllers of light.

- **The Shutter** is like a door that opens and closes for a given period of time. This time ranges from a small fraction of a second to few seconds. This is the time when light enters the camera.
- If the light in the area we are taking the photograph is weak then we shall open the shutter for a longer period of time.
- If the light is very bright then shutter opens for a fraction of a second.

**The Aperture** is of great significance. This is another opening to control the amount of light coming into the camera.

#### PARTS OF A CAMERA

Apart from the shutter and the aperture there are others parts of a camera which are important for its functioning. Let us list them.

light to fall on the surface that is to record the photograph.

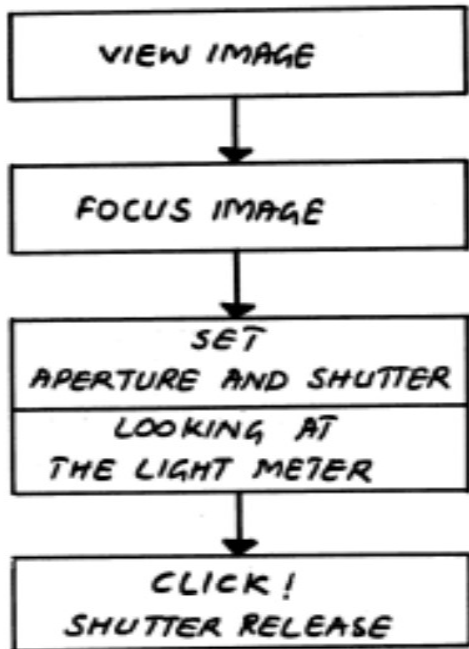
**View finder:** This is the point from where we look and aim the camera in the direction of the scene that is to be photographed.

**Shutter release:** As mentioned earlier this is the button on the top of a camera which when pressed takes the photograph.

**Lens:** The lens is the most important part of a camera, because it is the device through which we focus the subject or the picture onto the surface that is going to record the photograph.

**Focussing Ring:** This is the adjustment that we use to bring the subject into sharp focus.

**Light meter:** You have studied that the shutter and the aperture control light and send in just the right amount for the picture to be taken. Right amount of light is measured and indicated by a light meter. The light meter is either inside the view finder or on the screen that shows the picture. The easy to use cameras have an automatic setting that reads the light and accordingly sets the aperture and shutter speed.



Though the camera is an essential part of a photographer's equipment there are a few other equipments which are added to a camera to make its functioning better.

One is **flash** and other is **tripod**.

- **FLASH:** This is a high intensity light which bursts out for that fraction of a second when the shutter is released. This is useful when you are in situations where light is not enough for the picture to be taken.
- **TRIPOD:** Tripod as the name implies is three-legged support for the camera. Tripod is helpful when a slow shutter speed is used in the camera. to avoid a hazy picture cameraman uses Tripod. Now there are new tools available which can hold the camera securely.

### PROPERTIES OF A LENS

- There are various types of lenses; it depends on the Cameraman to use the type of lens for capturing objects or events.
- Good cameras allow us to change the lens according to our needs. Such cameras are generally Single Lens Reflex (SLR) cameras.

#### Types of lens:

Telephoto Lens

Wide Angle Lens

Zoom Lens

### OTHER IMPORTANT EQUIPMENTS IN PHOTOGRAPHY

### EXTEND YOUR HORIZON

working of a camera

- shutter
  - aperture
- (controllers of light)

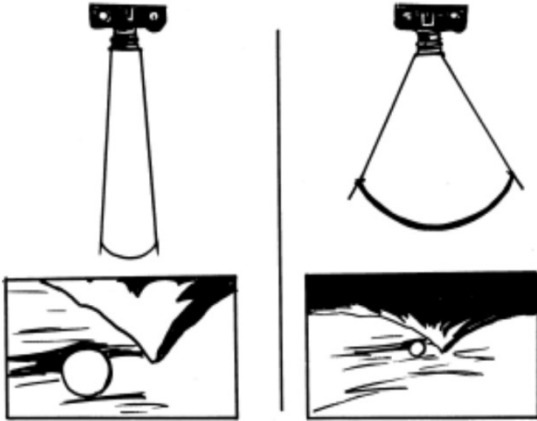
Parts of a camera

- view finder
- shutter release
- lens
- focussing ring
- light meter

types of lenses

- telephoto lens
- wide angle lens
- zoom lens

## DO YOU KNOW



Narrow angle of view

Wide angle of view

## EVALUATE YOURSELF

1. What are the most important components of a camera? Explain the use of each component.
2. Name three circumstances when you will use flash give reason for its use.
3. Which are the important lenses used in photography? Explain their use.
4. What is the function of a lens in a camera.

