

## **QUIZ ON CAMERA LENS**

**T V Camera Lens consists Focus: To Focus Objects at Various distances**

**Zoom: To take Long shot (Lowest Focal length) and Tight shot (Highest -focal length)**

**Aperture: To Control the amount of light entering Camera.**

**F stop: 1.4, 2.0, 2.8, 4, 5.6, 8, 11, 16, 22,**

**Back focus –To keep long shot in focus while zooming Out.**

**Macro- To focus an object lying with minimum object Distance.**

**Two types of camera lens: Fixed focal length Variable focal length.**

**Fixed focal length Lens has fixed focal length.**

**A wide angled fixed focal length lens has focal length Of 12mm.**

**It will display a wide field of view like long shot & has Excellent depth of Field.**

**A telephoto lens has a focal length of 50mm and more And display a narrow field of view like close up. It has Poor depth of field.**

**Variable focal length lens or zoom lens.**

**Zoom lens has variable focal lens & changes focal length continuously with out loosing focusing and May range from wide angle to telephoto.**

**Typical zoom range is 12-72mm.**

**So zoom ratio-: 6: 1. The ratio is expressed as 6 x.the Zoom ratio can be 10 x, 12x, 15x, & 19x.**

**The greater the focal length, the greater the Magnification of picture, the narrower the field of view the fatter the seen looks & narrower the depth of field.**

**Zoom lens is used in TV Broadcasting.**

**Aperture is required to control the amount of light Entering the camera.**

**The amount of light is specified by F number.**

**The effect of Aperture (iris) Light entering in  
To camera is more at lower f Stop numbers & vice  
Versa.**

**Back focus is distance from the back most surface of  
The lens to the  
Image Plane.**

**Macro lens or close up lens enables us to take photo  
graphs of to objects closer than MOD .IN macro  
mode zoom lens cannot zoom.**

**Depth of field: Maximum to minimum distance  
Within which the objects Remain in focus.**

**Focal length in mm will increase for close up shots.**

**Factors affecting depth of field.**

- 1. Lens aperture.**
- 2. Focused distance.**
- 3. Focal length of the lens.**