Astronomy Telescope Test Review

1. Can you explain what a light year is and how it is used as a unit?
2. Can you explain the difference between the objective lens or mirror and the eyepiece in a telescope?
3. Can you explain the difference in the following term?
   1. Focal length and aperture
   2. Focal ratio and magnification
4. Can you explain how a ccd camera takes a telescope picture and how that picture is unique (pixels)?
5. Could you trace light rays as they move through the following telescopes?
   1. Reflecting
   2. Refracting
   3. Catadioptric
6. What is the difference between a Galilean telescope and a Newtonian telescope?
7. Can you explain resolution? Focus? Chromatic aberration?
8. Can you calculate magnification if given a telescope’s and eye piece’s focal lengths? Would you be able to pick adequate eye pieces to use with a particular telescope?
9. What is MEM? Maximum effective magnification & the 20x rule?
10. Can you explain what an image processing program does with telescope images?
11. Can you compare and contrast your eye & telescope in the following ways? Optical system (opening, focusing, sensor); Aperture opening; Exposure time; Resolution; Field of view; Color vs Black & White

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