

Basic Astronomy
QUIZ: Chapter 20

Name: _____

MULTIPLE-CHOICE: Circle the best answer to the questions below:

1. Circle the one function that is not the primary function of a telescope:
 - a. it gathers light from distant objects
 - b. it focuses the light from distant objects
 - c. it magnifies the image
 - d. it points where an object is

2. The function of the **eyepiece** of eyepiece is:
 - a. it gathers light from distant objects
 - b. it focuses the light from distant objects
 - c. it magnifies the image
 - d. it points where an object is

3. The two functions of the **objective** is:
 - a. it gathers light from distant objects
 - b. it focuses the light from distant objects
 - c. it magnifies the image
 - d. it points where an object is

4. A refractor telescope has _____ as an objective.
 - a. lens
 - b. mirror
 - c. radio receiver
 - d. camera

5. A radio telescope is shaped liked a
 - a. reflector telescope
 - b. refractor telescope
 - c. a radio tower
 - d. flat dish

6. The reason several radio telescopes are combined are
 - a. they act like a bigger telescope
 - b. they act like a smaller telescope
 - c. that the other telescopes are backups incase one fails
 - d. to measure several things at one time

7. The Hubble telescope is a(n) _____ telescope.
 - a. optical
 - b. radio
 - c. infrared

8. List three types of light other than visible light:
- a. _____
 - b. _____
 - c. _____
9. List the other types of light plus visible light in the order from lowest energy to highest energy:
- Lowest _____
 - Next _____
 - Next _____
 - Highest _____
10. Give one reason why we are interested in observing different kinds of light:
11. When a gas is heated it produces light that is a combination of:
- a. specific colors of light
 - b. all colors
 - c. dark lines where color should be
12. List the three colors of light that make up the light given off by hydrogen gas:
13. How does the motion of stars affect the colors of light?
- a. If the star is moving towards us the colors are smeared
 - b. If the star is moving towards us the colors are shifted towards blue colors
 - c. If the star is moving towards us the colors are shifted towards red colors