



PHYSICS

BOOKS - CHETANA PUBLICATION

OBSERVING SPACE- TELESCOPES

Example

1. What is meant by space observation? Why is it important?



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2. What is the difference between space and sky.



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3. Define the following:

Visible radiation



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4. What are the two types of reflecting telescopes?



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5. Define the following:

Optical telescopes



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6. Define the following:

Refracting Telescopes



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7. Define the following:

Radio telescopes



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8. Explain the construction of Galileo's telescope.



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9. Explain the construction of a radio telescope.



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10. Answer the following question:

Why can an X-ray telescope not be based on the earth?



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11. How do refracting telescopes work?



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12. What are the difficulties in using refracting telescopes?



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13. How does a radio telescope work?



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14. What are the two types of reflecting telescopes?



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15. What is the purpose of launching X-Ray telescope Chandra?



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16. State some of the satellites and their uses.



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17. What is the speciality of the artificial satellite Astrosat?



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18. Answer the following question:

What are the difficulties in using ground based optical telescope? How are they overcome?



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19. Explain any two space observation telescope.



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20. Answer the following question:

Why are optical telescope located in uninhabited places on mountains?



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21. Write short note: GMRT



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Exercise

1. The first telescope was invented by..... .

A. Einstein

B. Galileo

C. Newton

D. Mendel

Answer:



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2. Light is an.....wave.

A. electric

B. magnetic

C. electromagnetic

D. mechanical

Answer:



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3. Visible radiation telescopes are also called as..... .

A. Gamma Ray telescopes

B. Optical telescopes

C. X-ray telescopes

D. Radio telescopes

Answer:



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4. Reflecting telescopes are mainly of two types :and..... .

- A. Newtonian and Galileoan
- B. Optical and Cassegrain
- C. Newtonian and Cassegrain
- D. Optical and Refracting

Answer:



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5. Giant Meterwave Radio Telescope (GMRT)
has been erected atnear Pune.

- A. Asangaon
- B. Talegaon
- C. Narayangoan
- D. Bhategaon

Answer:



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6. Visible light coming from heavenly bodies have to pass through theto reach the earth surface.

A. stratosphere

B. troposphere

C. atmosphere

D. biosphere

Answer:



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7. To collect the maximum amount of light coming from an object, the objective lens should be made as.....as possible.

A. large

B. small

C. circular

D. flat

Answer:



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8. The images formed by lenses have errors of colours. This is called

A. chromatic disruption

B. chromatic aberration

C. chromatic reflection

D. chromatic reaction

Answer:



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9. Radio telescope is made up of one or more dishes ofshape.

A. spherical

B. hyperbolic

C. parabolic

D. hexagonal

Answer:



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10. Diagram based question:

Which type of telescopes can be made using a concave mirror, convex mirror, plane mirror and a lens? Draw diagrams of these telescopes.



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11. Visible radiation has a wavelength ranging between.....to..... .

- A. 0.3mm, 20 cm
- B. 400mm,800 nm
- C. 1 m,10 m
- D. 50 nm, 300nm

Answer:



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12. The images formed by lenses have errors of colours. This is called

- A. chromatic disruption
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16. State whether the following are True or False :

Concave mirrors are used in refracting telescopes.



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17. Give Scientific Reason :

We cannot use the optical telescope during the day.



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18. How do refracting telescopes work?



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20. State some of the satellites and their uses.



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Explain the construction of a radio telescope.



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23. Explain any two space observation telescope.



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24. What is the speciality of the artificial satellite Astrosat?



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25. Write short note: GMRT



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26. Answer the following question:

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