

Chapter 12

Observing the Sky

1. Fill in the blanks

- We can see the _____ during the day time.
- During day the sun _____ to move through the sky.
- The apparent notion of sun is because of _____ of earth on its axis.
- Sometimes mercury and venus are seen in the day very low near the _____ in the sky.
- In addition to the moon, stars and _____ are other celestial bodies can be seen in the night sky.
- The planet _____ is the brightest object in the sky after sun and moon.
- Mars, Jupiter and _____ are planets that can be seen in night sky with unaided eye.
- _____ is the star nearest to the earth.
- A _____ is a group of stars that appear to form some recognisable pattern in the sky.
- _____ is special star present in the northern hemisphere.

2. Match the following

Column A	Column B
Sun	Brightest object after sun
Rotation of Earth	Group of stars
Stars	Apparent movement of Sun
Constellation	Dim points in night sky
Venus	Nearest star to earth

3. State whether given statements are true/ false.

- Pole star or Dhurvatra is special star present in southern hemisphere.
- A planet is closer to us than the stars that is why planets appear like tiny discs whereas the star appears as points
- The 2 stars at the top of Ursa Major are called pointers.
- Ursa Minor is visible in spring.
- The sun appears to rise in the west and sets in the east.

4. Multiple choice questions

- The pointers are part of _____ constellation
 - Ursa Minor
 - Orion
 - Ursa Major
 - Cassiopeia
- The sun appears to move in the sky because of
 - Rotation of earth on its axis
 - revolution of the earth
 - bright light
 - none of the above
- Stars appears as dim points in the night sky because
 - Are very near to us
 - are at large distance from us
 - are present in group
 - none of the above
- Pole star has been useful to travelers to define the north direction because

- a) It moves from south to north b) moves from north and south c) appears to remain fixed in one position d) none of the above

5. Answer the following questions

- a) What is the best time to watch the sky?
- b) Why does the sun dominate the day time sky?
- c) What causes the apparent movement of sun in the sky?
- d) Name the planets that can be seen during early morning hours.
- e) Name the brightest object in the night sky.
- f) Which planets can be seen in the night sky without the help of telescope?
- g) Even though sun is a star and is less brighter than other stars still it appears brightest, Justify.
- h) Draw a diagram of Ursa Major.
- i) How are planets different from stars?
- j) Why does pole star appears to remain fixed at one place?
- k) How the pole star helps the traveler?

6. The students should see the sky in the day and night and make list of the objects they see in the sky.

S.N	Objects visible in the sky in day	Objects visible in the sky in the night

- 7. Make a chart of 2 recognisable constellations.
- 8. Make a collage of night sky.
- 9. The student should go to observatory and make list of objects in the sky with help of telescope.