

Directions: In the following questions, a statement of assertion is followed by a statement of reason.

Mark the correct choice as:

- (a) both assertion and reason are true and reason is the correct explanation of assertion.
- (b) both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) assertion is true but reason is false.
- (d) assertion is false but reason is true.

1. Assertion: Earth exhibits rotatory motion.

Reason : It moves around an axis passing through it.

2. Assertion: The beating of the heart is repetitive.

Reason : The beating of the heart is a type of periodic motion.

3. Assertion: Something that appears to be in motion in relation to one observer may appear to be at rest in relation to another observer.

Reason : Motion is relative.

4. Assertion: Use of cubit while measuring the length of an object gives inconsistent results.

Reason : The size of cubit varies from person to person.

5. Assertion : Use the 0-mark if the ends of the ruler scale are worn out.

Reason : Use of 0-mark on a worn out scale does not give us accurate results.

6. Assertion: The SI system of units is uniform.

Reason : The SI unit of length is kilometres.

7. Assertion: The skill of estimation is important for all of us in our daily life.

Reason : The skill of estimation reduces our consumption of time.

8. Assertion: The distance between two celestial bodies is measured in the unit of light year.

Reason : One light year is defined as the total distance travelled by the light in one year.

9. Assertion Motion of a pendulum is periodic.

Reason : Motion of the bob of the pendulum repeats itself after a fixed interval of time.

10. Assertion : Boats and ships are able to sail through water easily.

Reason : Boats and ships have streamlined shapes that help them to cut through water easily.