

Q.1) Consider the following statements:

1. The Orion nebula is the closest large star-forming region to Earth and can be spotted with the naked eye.
2. White dwarfs are the final stage of evolution for some of the stars in the universe.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.2) With respect to the big bang theory, which of the following statements are correct?

1. In the beginning, all matter forming the universe existed in one place in the form of a singular atom.
2. Some of the energy was converted into the matter after the big bang explosion as the universe expanded.
3. At a later stage after the big bang explosion, the temperature dropped resulting in the universe becoming transparent.

Select the correct answer using the code given below:

- a) 1 only
- b) 1 and 2 only
- c) 2 only
- d) 1, 2 and 3

Q.3) In context of physical geography, consider the following pairs:

Landform Feature : Geomorphic Agent

1. Barchan : Wind
2. Natural levees : Glacier
3. Stalagmites : Underground Water
4. Spits : Waves

Which of the pairs given above is/are matched correctly?

- a) 1 only
- b) 3 and 4 only
- c) 1, 3 and 4 only
- d) 1, 2 and 3 only

Q.4) Which of the following are among the sources of information about the interior of the earth?

1. Volcanic eruption and deep mines
2. Meteorites
3. Gravity anomalies
4. Seismic activity

Select the correct answer using the code given below.

- a) 1 and 3 only
- b) 2, 3 and 4 only
- c) 1, 2 and 4 only
- d) 1, 2, 3 and 4

Q.5) Tides occur in the oceans and seas due to which among the following?

1. Gravitational force of the Sun
2. Gravitational force of the Moon
3. Centrifugal force of the Earth

Select the correct answer using the code given below.

- a) 1 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Q.6) Which of the following provide evidences of the drifting of continents proposed by Alfred Wegener?

1. Rocks of same age across the continents
2. Occurrence of crude oil
3. Distribution of fossils
4. Tillite and placer deposits

Select the correct answer using the code given below.

- a) 1 and 3 only
- b) 2 and 4 only
- c) 1, 3 and 4 only
- d) 1, 2, 3 and 4

Q.7) With reference to sedimentary rocks, consider the following statements:

1. Metamorphic rocks exposed to denudational agents can lead to the formation of sedimentary rocks.
2. Sandstone is a sedimentary rock which exhibits a number of layers of deposits.
3. Geyserite and coal are organically formed sedimentary rocks.

Which of the statements given above are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3