

29. Consider the following statements regarding Loess:

1. Loess is mostly created by wind, but can also be formed by glaciers
2. In parts of China, residents build cave-like dwellings in thick loess cliffs.
3. Unlike other soils, loess is loosely packed.

Which of the above statements is/are correct?

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

30. Consider the following statements about Block Mountains.

1. Block Mountains are formed when the earth's crust bends.
2. Vosges Mountain is an example of Block Mountain.

Which of the above statements is/are correct?

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

31. Consider the following pairs:

1. **Moho discontinuity:** separates Crust and upper mantle
2. **Guttenberg discontinuity:** separates lower mantle and outer core
3. **Lehman discontinuity:** separates inner and outer core

Which of the above statements is/are correct?

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

32. Consider the following statements:

1. Nepal is at the junction of the Indian and Eurasian tectonic plates so is earthquake prone
2. Most of the world's earthquake occurs along Pacific Ring of Fire.
3. Bureau of Indian Standards, based on the past seismic history, grouped the country into five seismic zones.

Which of the above statements are correct?

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

33. "Big Bang Theory regarding the origin and evolution of the universe is the most accepted theory of the modern time." Consider the following statements in this regard:

1. The big bang theory is also called as expanding universe hypothesis.
2. Tiny ball like atom which exploded violently to take shape of modern day universe is referred as Singularity.
3. 'The Big Splat' is the event marked by the collision of earth with giant asteroid.

Which of the above statements is/are correct?

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

34. According to Wegener, the movement responsible for the drifting of the continents is caused by this force. Which force is it?

- (a) Pole-fleeing force
- (b) Centrifugal force
- (c) Convectional Current
- (d) All of the above

35. With respect to Convectional Current Theory, consider the following statements:

1. These currents are generated due to radioactive elements causing thermal differences in the mantle portion.
2. The movement of the lithospheric plates is caused by the movement of the magma in the crust.
3. Harry Hess discussed the possibility of convection currents in the mantle.

Which of the above statement/s is/are correct?

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