

### Corrigendum/Explanation SFG 2024 Level 1 Test 25

**There is no change in today's paper. Some extra explanations have been provided for the students who have raised doubts.**

**Q.33)** There was an issue raised regarding the statement (d) of the Question i.e. "Excessive watering of the soil"

**Explanation** –The answer is correct as the question asks about the "least likely" cause of the formation of Hardpans. From the given options, Option (d) is the least likely to cause formation of hardpans. The question does not say that excessive watering of the soil cannot lead to formation of hardpans.

**Q.45)** There was an issue raised regarding the Option 5 of the Question i.e. "The occurrence of day and night prove that the shape of Earth is spherical".

**Explanation** – **The statement is incorrect** as the occurrence of day and night does not prove that the shape of Earth is spherical. It proves the rotation of Earth on its axis. The occurrence of day and night can be explained by the rotation of the Earth on its axis. Even if the Earth was not spherical, the day and night would have occurred if the Earth was rotating. Although the spherical shape of the Earth has an influence on the varying length of day and night across different latitudes. But the occurrence of day and night do not prove the spherical shape of Earth as even a flat Earth would have experienced day and night if it was rotating.

**Q.47)** There was an issue raised regarding whether Steady-State Theory proposes the expansion of universe or not.

**Explanation** – Steady-state theory, in cosmology, proposes that the universe is always expanding but maintaining a constant average density. In the steady-state model, the average density of matter in the expanding universe remains unchanged. The NCERT regarding this theory mentions that "An alternative to this was Hoyle's concept of steady state. It considered the universe to be roughly the same at any point of time." Here, NCERT talks about appearance of the Universe, which remains same as per the Steady-state theory. The steady-state model says that while the universe is expanding, it nevertheless does not change its appearance over time. Universe appears same at all places and at all times, as the expansion of universe is smooth and constant.