Corrigendum/Explanation SFG 2024 Level 1 Test 27

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. "Ferrel Cell is the zone of low pressure within the mid latitude characterised by converging winds."

Explanation: Both the statement and the answer are correct as we are talking about a cell, and Ferrel cell is a mid-latitude phenomenon. It is a zone of low pressure, and the air here converges at very low latitude to ascend through the boundaries between the warm tropical air and the cool polar air. In the middle latitudes, the circulation is that of sinking cold air that comes from the poles and the rising warm air that blows from the subtropical high. The cell formed here is known as Ferrel cell.

Q.38) There was an issue raised regarding the statement 2 of the Question i.e. "The extratropical cyclones are associated with strong winds and heavy precipitation."

Explanation: The Statement does not say that extra tropical cyclones are 'only' associated or 'exclusively' associated with strong winds and heavy precipitation. Extra tropical cyclones can be associated both with weak winds and strong winds, and also with both low precipitation and heavy precipitation. An extratropical cyclone can have winds as weak as a tropical depression, or as strong as a hurricane. Extratropical cyclones can bring little rain or they can be dangerous with torrential rain. For ex: Extratropical cyclones that occur within the mid-latitude in both hemispheres are associated with extreme precipitation, storm surges, extreme winds, sea level and wave build up. Hence, the statement remains correct.

Q.39) There was an issue raised regarding the Option (3) of the Question i.e. Whether presence of Strong vertical wind favours the formation of tropical cyclones.

Explanation: The Option is incorrect as presence of strong vertical wind will disrupt the cyclone's updraft, hindering its development and intensification. Strong vertical wind also will disrupt the cyclone formation as it will hinder its development, so it cannot be called as a favourable condition for development of cyclone. Though we agree that better phrase used here should have been 'smaller variations in the vertical wind speed', which is a favourable condition for the formation of cyclone.

Q.47) There was an issue raised regarding the regions which experiences Tropical Monsoon Climate.

Explanation: Tropical monsoon climate is found over the Indian sub-continent (South Asia), North-Eastern part of South America, Northern Australia and regions of South-East Asia. It is also experienced in some regions of West and Central Africa.

Please refer to NCERT for clarification.