

SWP Practice Test Questions and Answers

1. The Parker spiral describes:

- A) The helical path of solar energetic protons to Earth
- B) The Archimedean spiral shape of the interplanetary magnetic field resulting from solar rotation and radial solar wind flow
- C) The spiral structure of solar flare ribbons
- D) Coronal hole rotation patterns

2. The Kp index is derived from:

- A) A single polar magnetometer station
- B) K-indices from 13 sub-auroral magnetometer stations worldwide, averaged using a specific weighting scheme
- C) Solar wind data from the DSCOVR satellite
- D) Riometer measurements of ionospheric absorption

3. The term 'spread F' refers to:

- A) Spreading of HF radio beams by ionospheric refraction
- B) Diffuse, irregular echo patterns on ionosonde records indicating F-layer irregularities
- C) Frequency spread caused by Doppler-shifted solar radio bursts
- D) Widening of the F2 layer peak in altitude

4. What triggers a geomagnetic storm?

- A) Cosmic rays from deep space
- B) Solar wind disturbances from CMEs
- C) Lunar gravitational pull
- D) Radiation from Jupiter

Answers: 1-B 2-B 3-B 4-B

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