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1. The coherence length over which there is a strong relationship between amplitudes is;

A. Directly proportional to the bandwidth

B. Inversely proportional to the bandwidth

C. The square of the bandwidth

D. None of these

2. Which one of the following parameters is considered to determine the reflectance of a vegetation canopy?

A. Solar zenith angle

B. Azimuth angle

C. Look angle

D. All of these

3. Which one the following is a correct statement?

A. The vertical section of the soil extending into the parent material, is called profile

B. The layers of the soil parallel to the earth surface are called horizons

C. The transitional layer between two adjoining horizons is called boundary

D. All of these

4. In case of reflection and refraction of electromagnetic radiation,

A. Angle of incidence = angle of refraction

B. Angle of incidence = angle of reflection

C. Angle of refraction = sum of the angles of incidence and reflection

D. All the above

5. Pick up the correct statement from the following:

A. The minimum frequency of light for which no electrons are emitted, is called threshold frequency

B. Polarising angle of glass is 57.5°

C. At the polarising angle, the reflected and refracted rays are orthogonal

D. All the above

6. Which one of the following factors does not affect the scale of the air photographs?

A. Focal length

B. Flying height

C. Ground elevation

D. None of these

7. Which one of the following statements regarding remote sensing is correct?

A. The interaction of the electromagnetic radiation with the target

B. The emission of electromagnetic radiation from the target

C. Both A. and B.

D. Neither A. nor B.

8. The object of photo-interpretation is:

A. Identification

B. Recognition of objects

C. Judging the significance of objects

D. All of these

9. Pick up the correct statement from the following:

A. Phytoplankton contains photosynthetically active pigment

B. An increase of phytoplankton increases the back scattering in the green region

C. An increase of phytoplankton absorbs the blue region rapidly

D. An increase of phytoplankton decreases the back scattering in the green region

10. Which one of the following statement is incorrect regarding the electromagnetic radiation?

A. These are produced by the motion of electric charge

B. The oscillation of charged particles sets up changing electric fields

C. The changing electric fields induce the changing magnetic fields in the surrounding medium

D. None of these