

# IAT1

Satellite Communication with Remote Sensing (17TE72)

1. The relation between velocity, wavelength and frequency can be given as \_\_\_\_\_

- $\lambda = c / r$
- $\lambda = c / f$
- $\lambda = c / h$
- $\lambda = h*c / f$

2. Remote sensing uses which of the following waves in its procedure?

- Electric field
- Sonar waves
- Gamma- rays
- Electro-magnetic waves

3. Which of the following is not a principle of remote sensing?

- Interaction of energy with satellite
- Electromagnetic energy
- Electro-magnetic spectrum
- Interaction of energy with atmosphere

4. Which among the following waves is having less wavelength range?

- 0.03mm
- 0.03nm
- 0.03m
- 0.03km

5. In visible region, the blue light is having a wave length range of \_\_\_\_\_

- 0.42-0.52 micrometer
- 0.24-0.52 micrometer
- 0.42-0.92 micrometer
- 0.22-0.32 micrometer

6. Which of the following field is used by the EM waves?

- Solar field
- Polarized field
- Electric field
- Micro field

7. Among the following, which describes Stefan- Boltzmann formula?

- $M = \sigma/T^4$
- $M = \sigma-T^4$
- $M = \sigma+T^4$
- $M = \sigma*T^4$

8. Which of the following is not a classification of scattering principle?

- Faraday scattering
- Rayleigh scattering
- Mie scattering
- Non-selective scattering

9. Which of the following doesn't indicate a stage in remote sensing?

- Reflectance of energy
- Transmission of energy
- Energy source
- Absorption of energy

10. Which of the following indicates the functioning of a sensor?

- Transmits energy
- Absorbs wave length
- Sensitive to wave length
- Reflects energy

11. Signal can be generated by \_\_\_\_\_

- Interaction of EM waves with surface
- Interaction of EM waves with energy source
- Interaction of EM waves with atmosphere
- Interaction of EM waves with sensor

12. Which among the following is the first Indian remote sensing satellite?

- Quick Bird
- SPOT
- IRS-1A
- MOS

13. The wave length sensed in remote sensing are \_\_\_\_\_

- Nano meters and giga meters range
- Nano meters and deci meters range
- Nano meters and micro meters range
- Nano meters and meters range

14. Which among the following wave is not employed in case of remote sensing?

- X-ray
- Visible ray
- Thermal IR
- Radio waves

15. Which of the following waves can be used in case of remote sensing?

- UV rays
- X-rays
- Gamma rays
- Visible rays

16. The formula of energy produced from the body can be given as \_\_\_\_\_

- $Q = h \cdot c / \lambda$
- $Q = h \cdot c \cdot \lambda$
- $Q = h + c / \lambda$
- $Q = h \cdot c / \lambda$

17. Energy of the discrete particles can be given by \_\_\_\_\_

- Photons
- Protoplasm
- Electrons
- Neutrons

18. Diameter of sun can be given as \_\_\_\_\_

- $1.39 \times 10^7 \text{ km}$
- $1.9 \times 10^6 \text{ km}$
- $1.39 \times 10^6 \text{ km}$
- $1.39 \times 10^{16} \text{ km}$

19. The energy radiated from sun in visible region will be around \_\_\_\_\_

- 43%
- 45%
- 47%
- 50%

20. The value of solar constant can be given as \_\_\_\_\_

- $1637 \text{ W / m}^2$
- $1367 \text{ W / m}^2$
- $136 \text{ W / m}^2$
- $3167 \text{ W / m}^2$

21. Temperature on the sun is around \_\_\_\_\_

- 575 – 600 K
- 7550 – 8000 K
- 5570 – 6000 K
- 5750 – 6000 K

22. Which form of scattering in the atmosphere is NOT dependent on wavelength?

- Rayleigh
- Mie
- Non-Selective

23. A reduction of nitrogen nutrient in plants:

- Affects leaf color
- Reduces pigment concentration
- Increase the visible reflectivity
- All of these



24. The altitudinal distance of a geostationary satellite from the earth is about:

- 26,000 km
- 30,000 km
- 36,000 km
- 44,000 km

25. The ratio of the total solar radiant energy returned by a planetary body to the total radiant energy incident on the body, the called:

- Reflectance
- Reflectance factor
- Albedo
- None of these

26. Which one of the following statement is correct?

- Radiant energy expressed in Joules, is the energy associated with electromagnetic radiation
- The rate of transfer of radiant energy is called flux and is expressed in watts
- The radiant energy which falls upon a surface is termed as irradiance
- All of these

27. Pick up the correct statement from the following:

- In remote sensing technique, the observation place, is called a platform
- Platforms may be either stationary or mobile
- Spatial resolution of the imaging system becomes poorer with increase of platform height
- All of these

28. The optical property of a water body depends on:

- Absorption by the dissolved material
- Absorption by the suspended particulate matter
- Scattering by the suspended particulate matter
- All of these

29. Which one of the following statements is correct?

- During the day, earth reflects solar radiation
- During the day, earth reflects both solar radiations the emission from its surface
- During the night, earth emits radiation from its surface
- All of these

30. Which one of the following helps to identify the objects on the earth surface?

- Atmospheric window
- Signature
- Radiometric error
- None of these

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