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1) In an optical fiber communication system, which among the following is not a typical transmitter function?

- a. Coding for error protection
- b. Decoding of input data
- c. Electrical to optical conversion
- d. Recoding to match output standard

ANSWER: (d) Recoding to match output standard

2) Which among the following is provided by an optical receiver for the regeneration of data signal with minimum error?

- a. Photo-diode
- b. Signal Processing Circuits
- c. Linear Circuitry
- d. None of the above

ANSWER: (c) Linear Circuitry

3) For a sine wave, the frequency is represented by the cycles per _____

- a. Second
- b. Minute
- c. Hour
- d. None of the above

ANSWER: (a) Second

4) Which property/ies of PCM stream determine/s the fidelity to original analog signal?

- a. Sampling rate
- b. Bit depth
- c. Both a and b
- d. None of the above

ANSWER: (c) Both a and b

5) In single-mode fibers, how does the fraction of energy traveling through bound mode appear in the cladding?

- a. As a crescent wave
- b. As a gibbous wave
- c. As an evanescent wave
- d. All of the above

ANSWER: (c) As an evanescent wave

6) What is the typical value of refractive index for an ethyl alcohol?

- a. 1
- b. 1.36
- c. 2.6
- d. 3.4

ANSWER:(b) 1.36

7) If a light travels in a certain medium and it gets reflected off an optically denser medium with high refractive index, then it is regarded as _____

- a. External Reflection
- b. Internal Reflection
- c. Both a and b
- d. None of the above

ANSWER: (a) External Reflection

8) In an optical fiber, the concept of Numerical aperture is applicable in describing the ability of _____

- a. Light Collection
- b. Light Scattering
- c. Light Dispersion
- d. Light Polarization

ANSWER:(a) Light Collection

9) Which among the following do/does not support/s the soot formation process?

- a. OVPO
- b. MCVD
- c. PCVD
- d. All of the above

ANSWER: (c) PCVD

10) Which type of photonic crystal fiber exhibit/s its/their similarity to the periodic crystalline lattice in a semiconductor?

- a. Index guiding fiber
- b. Photonic bandgap fiber
- c. Both a and b
- d. None of the above

ANSWER: (b) Photonic bandgap fiber

