

Q.5 Light traveling in optical fiber follows which of the following principles.

- a) Huygen's principle b) Reflection theory
- c) Light theory d) All

Q.6 In optical fibers, light propagates mainly along the _____

- a) Cladding b) Core
- c) Buffer d) Jacket

Q.7 The attenuation losses are measured in terms of _____:

- a) Bel b) Decibel
- c) Del d) None

Q.8 The refractive index of the core in comparison of cladding is _____:

- a) Higher b) Lower
- c) Same d) None

Q.9 The light emitted diode is usually made from _____:

- a) Gallium arsenide b) Silicon
- c) Aluminium d) Germanium

Q.10 In spontaneous emission _____ are emitted in random manner

- a) Electrons b) Photons
- c) Protons d) None

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 PVC stands for _____?

Q.12 Unit of dispersion is _____?

Q.13 SOA stands for _____?

Q.14 LED stands for _____?

Q.15 APD stands for _____?

Q.16 LED is a coherent source of light (True/False)?

Q.17 _____ responsible for blue colour of the sky.

Q.18 Define Bit rate.

Q.19 Unit of frequency is _____.

Q.20 WDM _____?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Draw and explain basic structure of optical fiber.

Q.22 Define Snells law.

Q.23 What is principle of photo detection.

Q.24 Write short note on bending losses.

Q.25 Explain the operating characteristics of LED.

Q.26 Write short note on Avalanche Photo diode. (APD)