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## Fiber Optic MCQ Questions

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**Q1. Fiber optics was invented by .....**

- **A. Thomas Mensah**
- B. Thomas Edison
- C. John Henry Holmes
- D. None of the above

**Q2. Fiber optic cable operate at frequencies near**

- A. 2 GHz
- B. 20 MHz
- C. 200 MHz
- **D. 800 THz**

**Q3. Which is the most beneficial index profile in single mode fibers?**

- A. Step index
- B. Coaxial cable
- **C. Graded index**
- D. Step and graded index

**Q4. Which of the following statistics are used for calculations of strengths of optical fibers?**

- A. Edwin statistics
- **B. Gamma statistics**

- C. Newton statistics
- **D. Wei-bull statistics**

**Q5. The micro-bending losses are depend on .....**

- A. Diameter
- B. Core material
- C. Refractive index
- **D. Mode and wavelength**

**Q6. Which of the following can induce a considerable amount of attenuation in optical fibers?**

- A. Dispersion
- B. Micro-bending
- **C. Radiation Exposure**
- D. Diffusion of hydrogen

**Q7. .... categories exists in case of cable design.**

- A. 2
- **B. 3**
- C. 4
- D. 5

**Q8. Which of the following is described by the concept of numerical aperture in an optical fibre?**

- A. Light scattering
- **B. Light collection**
- C. Light dispersion
- D. Light polarisation

**Q9. Which of the following is not a typical transmitter function In an optical fibre communication system?**

- A. Decoding of input data
- **B. Decoding of input data**

- C. Electrical to optical conversion
- **D. Recoding to match output standard**

**Q10. .... are not used nowadays for optical fibre communication system.**

- A. Coaxial cable
- B. Multimode fibre
- **C. Single-mode fibre**
- D. Multimode graded-index fibres

**Q11. Which component provides additional strength and prevents the fiber from any damage?**

- A. Core
- B. Cladding
- **C. Buffer Coating**
- D. None of the above

**Q12. Which kind of dispersion phenomenon gives rise to pulse spreading in single mode fibers?**

- A. Material
- B. Intermodal
- **C. Intramodal**
- D. None of the above

**Q13. Which kind of optical devices are adopted or applicable for routing signals from one waveguide to another?**

- A. Optical Splitter
- **B. Optical Coupler**
- C. Optical Combiner
- D. None of the above

**Q14. Which of the following method determines the dispersion limitation of an optical link?**

- **A. Rise time budget**

- B. Link power budget
- C. Both A & B

**Q15. Which of the following is the width of the range of wavelengths emitted by the light source?**

- A. Bandwidth
- B. Beamwidth
- C. Spectral width
- D. Chromatic Dispersion

**Q16. When a beam of light enters one medium from another, ..... will not change?**

- A. Speed
- B. Direction
- C. Frequency
- D. Wavelength

**Q17. The wavelength of light has no role in .....**

- A. Reflection
- B. Diffraction
- C. Interference
- D. Polarization

**Q18. Which kind of dispersion is caused by the difference in the propagation times of light rays that take different paths down a fiber?**

- A. Modal dispersion
- B. Delay dispersion
- C. Material dispersion
- D. Wavelength dispersion

**Q19. Which is the average insertion loss of fusion splice in fiber optics?**

- A. 0.9 dB
- B. 0.19 dB
- C. **0.09 dB**
- D. 0.009 dB

**Q20. Which type of fiber has the highest modal dispersion?**

- A. Graded index mode
- B. **Step-index multimode**
- C. Step-index single mode
- D. Graded index multimode

**Q21. .... is used as an optical transmitter on the Fiber Optical Communications.**

- A. APD
- B. **LED**
- C. PIN diode
- D. LSA diode

**Q22. Which of the following is regarded as an inelastic scattering of a photon?**

- A. Hall Effect
- B. Kerr Effect
- C. Miller Effect
- D. **Raman Effect**

**Q23. Which of the following is responsible for generating attenuation of an optical power in fiber?**

- A. Scattering
- B. Absorption
- C. Waveguide effect
- D. **All of the Above**

**Q24. In circulator, an optical path of signal follows .....**

- A. **A closed loop**
- B. An open loop

- C. A double loop
- D. None of above

**Q25. Which of the following fibers does not used nowadays for optical fiber communication systems?**

- A. Coaxial cable
- B. Multimode fibre
- C. **Single-mode fibre**
- D. Multimode graded-index fibres

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