Fibre Optics Problems and Solutions

For the three main types of optical fibres listed, describe: how they work, what problem(s) they solve and what issues arise when used. Diagrams are very helpful.

Step-Index

Graded-Index

Single-Mode

Attenuation is an issue whenever a signal is transmitted from one position to another.

1. Describe the problem of attenuation.

2. Explain the reason for using a decibel scale when talking about attenuation.