

1. Specify two basic elements that are included in a copper cable:

1. _____
 2. _____
-

2. Select from the following list those technologies, which are among the technologies of access networks abbreviated as FTTx:

- | | | |
|-------------------------------|--|---------------------------------|
| <input type="checkbox"/> FTTH | <input type="checkbox"/> FTTdb | <input type="checkbox"/> FTTC |
| <input type="checkbox"/> FTTO | <input type="checkbox"/> FTTE _x | <input type="checkbox"/> FTTF |
| <input type="checkbox"/> FTTP | <input type="checkbox"/> FTTB | <input type="checkbox"/> FTTCab |
-

3. Match the four different abbreviations of xDSL technologies shown on the left column to the corresponding descriptions on the right column.

ADSL	Very high speed Digital Subscriber Line
HDSL	Single pair High speed Digital Subscriber Line
SHDSL	High speed Digital Subscriber Line
VDSL	Asymmetric Digital Subscriber Line

4. Which technique is used at VDSL connections for increasing of transfer rate, when we compared it with ADSL connections?

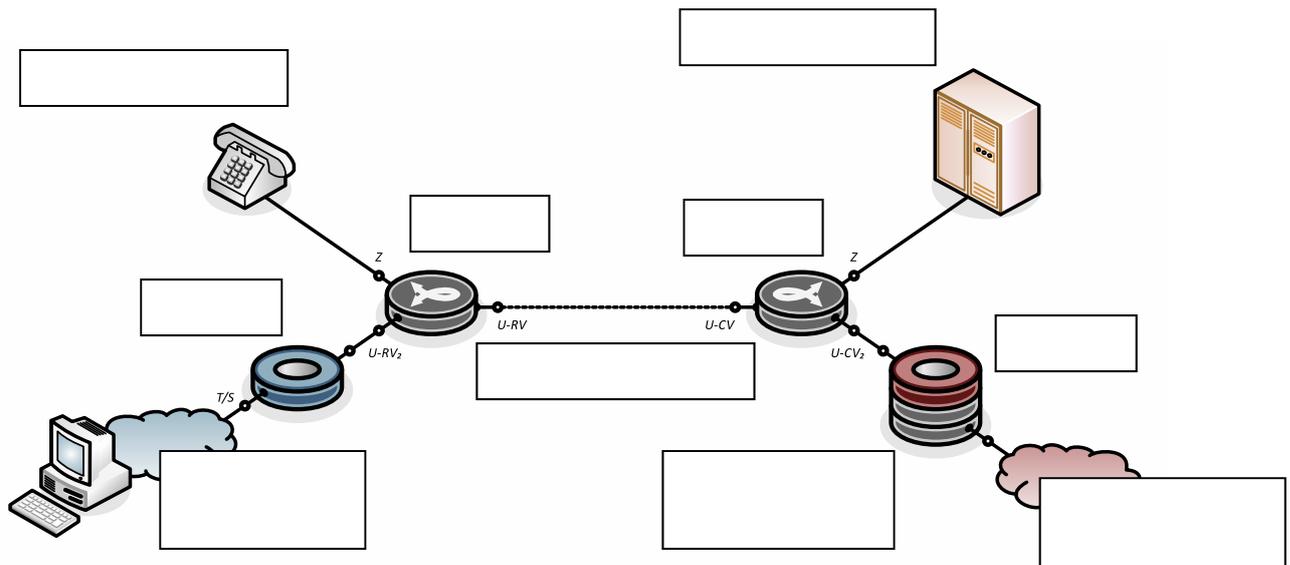
- change of modulation type
 - extension of reachable range
 - extension of used frequency band
 - reduction of attenuation of transmission line
-

5. Specify all modes of data transfer at VDSL2 connection for subscriber terminal:

1. _____
2. _____
3. _____



6. Fill in the following figure the correct labels for individual blocks of VDSL2 connection:



7. Quality of service is a scale how to evaluate the subscriber satisfaction with the service that he pays for, and that it provided by the operator. Evaluation of services is a relatively complicated process. Specify the criteria that are used for example for the evaluation (objective and subjective):

1. _____
2. _____
3. _____
4. _____

8. Modify the following texts so that the statements will be true.

Interleaving is a technique that (enhance / reduce) the ability to detect and correct errors resulting from impulse interference during transmission. Corrupted data is possible in the terminal equipment repair and it (is not / is) possible to be re-transferred data from the source. This capability leads to (increase / decrease) the transmission efficiency.