1. DVB stands for:

Data Video Broadcasting

Digital Video Broadcasting

Database Video Broadcasting

1. Write three core services which the DVB technology provides!

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Assign services below to interactive or pseudo-interactive group!

|  |  |
| --- | --- |
| interactive | pseudo-interactive |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1 – Electronic news

2 – Electronic banking

3 – Video-services

4 – Webcasting

5 – Auction systems

6 – Internet access

7 – Electronic business

8 – Advertisement information

1. What standard is not DVB standard?

DVB-S DVB-C DVB-TV DVB-SI DVB-T

DVB-SK DVB-CSA DVB-Data DVB-H DVB-WEB

1. Specify functions performed by the MPEG-2 systems layer.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What definition of the MPEG-2 systems layer is correct?

□ MPEG-2 systems layer defines how various elementary streams representing one or multiple programmes are multiplexed together.

□ MPEG-2 systems layer defines how data streams representing multiple programmes are multiplexed together.

□ MPEG-2 systems layer defines how elementary streams representing one or multiple programmes are distributed.

1. What does PES (*Packetized Elementary Stream*) represent?
2. Complete (fill up) name of empty box in the block diagram for multiplexing of packetized elementary streams!

elementary streams for one or more programmes

conditional access

control

private

information

service

information

modulator/

channel adapter

Forward error protection (FEC)

synchronization

1. Fill up the empty boxes (by titles below) to complete a simplified block scheme of the DVB-S system!

satelit.eps

LNB

HPA

U/C

video

audio

IP data

video

audio

IP data

DVB-S Modulator Multiplexer MPEG encoder

IP Gateway DVB-S Receiver DVB-IP Receiver

© Courtesy: Jason C. Fisher a Tracey Saxby, Integration and Application Network, University of Maryland Center for Environmental Science (ian.umces.edu/imagelibrary/)

1. Complete a block scheme of the basic IPTV architecture!

box1.jpg

box2.jpg

Content Provider Service Provider Internet (Broadband IP Network)

Home Network Gateway Home Network IPTV Set-top-box