

E-Business Technologies

Prof. Dr. Eduard Heindl, HS-Furtwangen, Faculty Wirtschaftsinformatik

Business Consultant Master 2008 winter term, written examination

Time: 90 minutes

Maximum points: 100

First name:	
Surname:	
Matr. Number:	
Points:	
Mark:	

1. What is the limitation of ADSL using telephone lines? (2 points)

2. A mobile communication system transfers data with a frequency between 1.810 MHz and 1.890 MHz. How many bytes can you receive in every second? (6 points)

3. If your mobile uses GSM it receives 8 channels of communication. Only one contains your call. Why can't you eaves drop (listen to) the other channels? (3 points)

4. Give 2 weak points of the mobile phone interface, and how these points can be solved. (4 points)

5. The UMTS uses vectors with 2kbit/sec, how many vectors are necessary for a telephone call? (Only short description) (3 points)

6. How is it possible to detect errors during a data transmission using a hash code? (6 points)

7. A user requests the domain `www.hs-furtwangen.de`, describe the way, how the IP address is detected by the network layer? (6 points)

8. Name two disadvantages of POP3. (2 points)

9. Draw a simple proxy server logic for caching web objects. (9 points)

10. What protocol uses a webclient to call the webserver? (2 points)

11. Which keys are exchanged during a SSL session? (6 points)

12. Name 4 advantages of internet marketing. (4 points)

13. Draw the basic HTML tree. (6 points)

14. Youtube is often called a Web 2.0 website, give good arguments for this statement. (5 points)

15. What are the relevant parts of the AJAX technologie? (3 points)

16. Why do most web domains begin with "www."? (3 points)

17. Name two relevant open source products? (2 points)

18. Which technology can you use to display HTML documents on different output devices like printer, mobile device, ...? (3 points)

19. Give the 3 types of charging methods used in digital payment. (6 points)

20. The price of data storage devices drops since 50 years. What type of trend is that and how can you present this in a graph? (6 points)

21. How many data can we (approximately) store on a DVD? (4 points)

22. Give six different examples of internet marketing. (6 points)

23. Give 3 applications of RFID. (3 points)