

# Self-test IT awareness

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# INTRODUCTION

With this self-test you can assess if the course IT awareness is useful for you.

In this test, 20 questions are asked. For most questions, *there is only one answer possible*. If multiple answers are possible, it will be clearly indicated. A question is answered correctly, if all correct answers are given.

Count some 10 to 15 minutes to finish the test.

You can find the right answers and guidelines for the evaluation at the end of this document.

# QUESTIONS: SELF-TEST IT AWARENESS

1. What kind of memory gives the fastest direct access?
  - (a) RAM
  - (b) hard disk
  - (c) CD-ROM
  - (d) SSD
  
2. What belongs to the core tasks of an Operating System? *[3 answers]*
  - [a] spreading the CPU's attention across different processes
  - [b] organizing the data storage using a file system
  - [c] managing the internal memory
  - [d] distributing the electronic mail
  
3. Which option gives the correct order from big to small?
  - (a) GB > MB > KB > TB
  - (b) KB > GB > MB > TB
  - (c) TB > GB > MB > KB
  - (d) GB > TB > KB > MB
  
4. Which is true?
  - (a) A mail server and a web server must run on two different computers.
  - (b) In general, Unix is used as a client operating system and Windows as a server operating system.
  - (c) PCs and mainframes can both act as servers.
  
5. Which list is of a different nature?
  - (a) Unix, Linux, AIX
  - (b) OS/390, MVS, z/OS
  - (c) Word, Excel, Acrobat Reader
  - (d) Windows 7, Windows 10, Mac OS X

6. Which is the correct sequence? ('-->' means: 'uses, is based on')
- (a) hardware --> operating system --> user --> applications
  - (b) user --> applications --> hardware --> operating system
  - (c) applications --> user --> operating system --> hardware
  - (d) user --> applications --> operating system --> hardware
7. Which statement is WRONG?
- (a) Over the Internet we can send electronic mail.
  - (b) A web page is formulated in URL.
  - (c) ISP stands for Internet Service Provider.
  - (d) HTTP is a protocol for the transport of web pages.
8. Which statements about LANs is correct?
- (a) A typical LAN has a bandwidth of 10 to 1000 Mbps.
  - (b) LAN stands for 'Limited Access Network'.
  - (c) For a LAN connection we need electrical wiring.
  - (d) A typical LAN has a reach of some 100 kilometers.
9. Which of these will NOT occur often in the description of a WAN configuration?
- (a) router
  - (b) SQL
  - (c) ADSL
  - (d) modem
10. Which is true about TCP/IP?
- (a) It is an application software.
  - (b) It is a communication protocol.
  - (c) It is communication hardware.
  - (d) It is an Ethernet standard.

11. Which are true statements about routers? *[2 answers]*
- [a] Cisco is a major router vendor.
  - [b] Routers are widely used to connect LANs over short and long distances.
  - [c] Routers run particularly on Unix machines.
  - [d] To setup a firewall, you need a router.
12. SAP, Oracle Applications and PeopleSoft
- (a) are well-known database systems.
  - (b) are used to develop ERP applications.
  - (c) run particularly on IBM mainframes.
13. Which is a suitable order for the steps in application development?
- (a) functional design > implementation > technical design
  - (b) design > analysis > construction
  - (c) functional design > technical design > construction
14. When you have to manage the hardware and software in a computer infrastructure, which of the following offers you a systematic approach?
- (a) UML
  - (b) DB2
  - (c) ITIL
  - (d) Scrum
15. Which is true about relational databases? *[2 answers]*
- [a] They are collected data files, managed with a RDBMS.
  - [b] They have a strongly hierarchical structure.
  - [c] They can be queried with SQL.
  - [d] They are hard to use in a client/server architecture.
16. Which statements are true? *[2 answers]*
- [a] Python and Visual Basic are often used to program applications.
  - [b] COBOL is particularly designed for use in a GUI environment.
  - [c] 3GL programming requires more effort from the programmer (and less effort from the computer) than 4GL programming.
17. Consider the following situations:

- using a PC with Chrome to order a book at [www.amazon.com](http://www.amazon.com);
- using a Windows Terminal/RemoteDesktop, connected to a Citrix Presentation/XenApp Server (or to a Microsoft Terminal Server), to edit a document with MS Word.

These are examples of a \_\_\_\_\_ architecture.

- (a) thick client
- (b) database client
- (c) thin client
- (d) file client

18. Which are true statements about Web pages? *[2 answers]*

- [a] They can contain pieces of Java applications.
- [b] They are programmed in UNIX.
- [c] They can be dynamically created by a Web server, with data from databases such as Oracle and MySQL.
- [d] They are formatted in HTTP and transported over HTML.

19. Which are true statements about Object Orientation (OO)? *[2 answers]*

- [a] OO is designed for the development of network applications.
- [b] OO is a modern way to design and build applications.
- [c] Java, C++ and C# are typical object oriented programming languages.
- [d] C, PL/I and Assembler are typical object oriented programming languages.

20. Which term does not belong to this group?

- (a) REST
- (b) SOA
- (c) PHP
- (d) API

# EVALUATION.

Here are the correct answers to all questions:

1. a
2. a b c
3. c
4. c
5. c
6. d
7. b
8. a
9. b
10. b
11. a b
12. b
13. c
14. c
15. a c
16. a c
17. c
18. a c
19. b c
20. c

Give yourself 1 point for each correctly answered question (this means that **every** correct answer should be indicated).

If you answered less than 10 questions correctly, the course IT awareness will be very useful to you.

If you answered between 10 and 15 questions correctly, you already know a lot, but you will still learn more in this course.

If you answered more than 15 questions correctly, than this course is not useful for you any more. You can consider to assist one of these follow-up courses: Networking fundamentals, SOA & web services concepts, Mainframe computing introduction, XML concepts ....