



## AIP (Accredited Internet Professionals) Topics and Sample Questions (A123)

Competencies which are common to all streams are outlined in a separate document (Doc A105: Common Competencies of AIP), available from our web site:

<http://sipgroup.org/resources/docs.html>

There are two examinations for Accredited Internet Professional (AIP)

- Part 1: Core Examination
- Part 2: Examination for the selected stream

This document provides topics for the core examination and some sample questions.

An Internet professional regardless of their specialty or stream (e.g. web designer, VOIP, e-Business, web Server, e-Marketing, e-Learning, etc) should be able to pass the core examination.

### 1. CORE EXAMINATION AREAS AND TOPICS

The exam consists of five subject areas:

- a) Computing Fundamentals - 10% of the examination
- b) Networking and Internet - 40% of the examination
- c) Business Concepts - 20% of the examination
- d) Application Development - 20% of the examination
- e) Security & Privacy - 10% of the examination

Notes:

- (a) Grade required to pass: 75%
- (b) There will be a mix of easy, medium level and hard questions (30%, 45% and 25% in that order)
- (c) There will 50 questions to be completed by the candidate in one hour.

Each subject is expanded into topics and sub-topics with some sample questions.

### 2. Computing Fundamentals (Independent of platform/Operating Systems)

#### 2.1 General Topics

- Hardware: computers, monitors, hubs, switches, routers, modems, firewall.
- Software: Operating Systems, word processing software and other office productivity software, spreadsheet, graphic and database

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## 2.2 Sub-topics

- Download: WebPages source coding, web page, graphics
- Digital Camera, Video cam: Hook up to computer, download images,
- Scanner: Scan images, edit images
- File compression: What it is, why to use it, how to use it for text and images
- Protection: Back-up, virus protection, hacking protection, passwords, credit card protection
- Fax: Install fax program, receive on PC, send from PC, and cover sheets
- File formats: significant differences (bmp, tif, jpg, gif, mpeg, txt, doc, rtf, zip, htm, html, asp, php)

## 2.3 Sample Questions

Which of the following provides the fastest data access time?

- a) ROM
- b) RAM
- c) EIDE Hard Drive
- d) 48x Speed CD-Rom Drive

What kind of port is typically COM1?

- a) 25 pin female
- b) 9 pin female
- c) 9 pin male
- d) 15 pin male

Hard Drives can use the following interfaces (Check all that apply)

- a) Serial
- b) IDE
- c) SCSI
- d) EDI

Most dial up connections for modems use which type of protocol?

- a) PPTP
- b) PPP
- c) TCP/IP
- d) UTP

## 3. Networking and Internet (Independent of platform/OS)

### 3.1 Topics

- Types of networks, Protocols, port addresses; PC Networking, Home Networking
- Internet history some basic facts, Internet architecture, Internet applications
- Installing, configuring and using Internet programs: Browser, email client (outlook, Pegasus, Eudora), FTP, chat, collaboration tools.



- Use Electronic Mail (compose, send, retrieve, read, respond and forward messages and attach files.), subscribe and unsubscribe to mailing lists and user groups
- Other Internet Services: mailing lists, search engines, web services, online financial transactions, website certificates, registration of domain names, broadband services.
- Plug-ins for browser (e.g. for Netscape Communicator / Microsoft Internet Explorer): multi-media, forms, various readers.
- Research using Internet, search engines, directories
- servers, domain names and DNS
- HTML (including awareness of HTML source code), collaboration tools
- VPN

### 3.2 Sample Questions

Which of the following network printing components hold a print job until the printer can process it?

- (a) Redirector
- (b) Print Server
- (c) Spooler
- (d) Printer Share

In the URL, <http://cs.um.edu/faculty.html>, the word [cs.um.edu](http://cs.um.edu/faculty.html) is \_\_\_\_\_

- a) The Name of the machine running the Web server
- b) A Server to which an HTTP request is being initiated
- c) The Name of a file on the machine [cs.um.edu](http://cs.um.edu/faculty.html)
- d) None of the other options listed for this question

Which protocol does a Web browser use to communicate with the Web Server?

- a. TCP/IP
- b. HTTP
- c. HDLC
- d. HTML

On a machine running Windows, you can bring up the Start Menu by pressing the

- a) key with the Microsoft Logo provided for popping up the Start Menu
- b) "Shift" key
- c) "Alt" key
- d) "Ctrl" key

Which of the following best describes a network that connects computers in a single building?

- a. Campus Area Network
- b. MAN
- c. LAN
- d. WAN



## 4. Business Concepts - e-commerce, legality

### 4.1 Topics & Sub-Topics

- e-Commerce
- Business using the Internet
- e-mail campaign
- Public Relations
- People Skills
- Professional Development
- Funding for Business
- Business to Business web site
- Consumer to Consumer e-business
- Secure Electronic Transaction, Security certificates
- Merchant accounts
- Angel, venture capital
- VPN

### 4.2 Sample Questions

Priceline.com, the popular “name-your-price” business model is an example of a

- a) Business To Consumer Auction model
- b) Business To Consumer Advertising model
- c) Consumer To Consumer Auction model
- d) Business To Government Auction model

One of the significant ways in which an online retailer like Amazon.com cuts down on operating cost is by (Choose All that Apply)

- A. Reducing the amount of Real Estate property it owns or rents to sell books
- B. Reducing the amount of inventory by having a large centralized warehouse
- C. Reducing the number of people employed by using a self service model
- D. Reducing its investments in IT infrastructure

A good example of a Consumer-to-Consumer auction model on the Internet is

- a. www.hotmail.com
- b. www.amazon.com
- c. www.priceline.com
- d. eBay.com

## 5. Application Development

### 5.1 Topics

- languages, terms - e.g. “Name the languages”



- Back-end applications: databases, servers such as ftp, mail, DNS, web, DHCP, win, etc.
- Front-end applications: graphics, html coding, scripting, CGI, etc.
- Back-end applications: databases, servers such as ftp, mail, DNS, web, deco, win, etc.
- Front-end applications: graphics, html coding, scripting, CGI)
- Managerial view of software development, Application development life cycle
- Java
- C++
- .NET

## 5.2 Sample Questions

What is the difference between HTML and XML?

- HTML describes how text and graphic images are to be displayed whereas XML describes the contents or the data on a web page
- XML describes how text and graphic images are to be displayed whereas HTML describes the contents or the data on a web page
- XML is a later version of HTML with a large number of tags that were added after several discussions among the World Wide Web Consortium.
- XML is the HTML equivalent for building client server applications which can dynamically serve up content

What is Perl?

- A Script Programming Language
- A Integrated Development Environment for developing Visual Basic applications
- A Visual Basic Programming Extension
- A language used on all websites

All Perl Scripts should have an extension \_\_\_\_\_

- .Perl
- .chi
- .pl
- .purI

Which of the following is NOT a scripting language?

- Perl
- PROLOG
- VB Script
- JavaScript

## 6. Security & Privacy

### 6.1 Topics

- Firewalls
- Secure Electronic Transactions
- Privacy
- access control, authentication, encryption/decryption, SSL, biometrics,



- Protections: security, anti-virus, Spam, etc
- Authentication - What is
- Permissions - What Permissions (does not have to OS Specific)
- Data encryption - What is data encryption and how does it affect performance
- Privacy compliance and knowledge (principles of PIPEDA)

### 6.2 Sample Questions

You know you are on an SSL connection by checking which of the following

- a) The web page URL is s-http://<page name> instead of http://<page name>
- b) The web page temporarily displays encrypted characters which then disappear after the complete page is loaded
- c) The web page URL is https://<page name> instead of http://<page name>
- d) The web page prompts the user for a public key which is a 16 digit number available with the user

Some of the disadvantages of using a Firewall for securing a network are (Choose all that apply)

- a) It decreases the throughput between the protected network and the outside network
- b) It focuses the point of attack on a single point assuming all hosts are not running any other form of protection
- c) It is more difficult to administer and maintain in comparison to a host based security system
- d) It increases the through put inside the protected network

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Your e-mail messages are private and can't be read by others

- a) True
- b) False
- c) May be
- d) Depends

Your travels on the World Wide Web can be tracked.

- a) True
- b) False
- c) May be
- d) Depends

### Related AIP Documents and Resources

SIP has been working to restructure Certified Member of SIP (CMSIP) program and AWP Web Programs to the Accredited Internet Professional (AIP) program. As of January 2005, 13 streams are identified and 23 documents are produced. Most of the documents are posted on SIP's web site:

<http://sipgroup.org/resources/docs.html>

### Details & Application Package:

Take the Self-Assessment, review competencies & download the application from our web site:

<http://www.sipgroup.org/certification.html>

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