Lab: 04

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Course: Computer Networks

**Activity 2**

1. **Who is Jonathan B. Postel and what is he known for? (Search hint: Jon Postel)**

An American computer scientist who made many significant contributions to the development of the Internet, particularly with respect to standards. He is known principally for being the Editor of the Request for Comment (RFC) document series, for Simple Mail Transfer Protocol (SMTP), and for administering the Internet Assigned Numbers Authority (IANA) until his death.

1. **Which two related organizations are responsible for managing the top-level domain name space and the root Domain Name System (DNS) name servers on the internet? (Search hint: ICANN, IANA)?**

Two **organizations** that are **responsible** for managing the aforementioned are:

* IANA (Internet Assigned Numbers Authority).
* ICANN (Internet Corporation for Assigned Names and Numbers).

1. **Vinton Cerf has been called one of main fathers of the internet. What internet organizations did he chair or help found? What internet technologies did he help to develop? (Search hint: Vint Cerf, IAB, ISOC, ICANN)?**

Vinton Cerf co-founded the Internet Society and played a role in the creation of ICANN. He also co-designed TCP/IP protocols and played a key role in the development of HTTP, SMTP, and DNS.

1. **What organization is responsible for publishing Request for Comments (RFC)?**

A Request for Comments (RFC) is a numbered document, which includes appraisals, descriptions and definitions of online protocols, concepts, methods and programmes. RFCs are administered by the IETF (Internet Engineering Task Force). A large part of the standards used online are published in RFCs.

1. **What do RFC 349 and RFC 1700 have in common? (Search hint: Request for Comments, Google – RFC 349, RFC 1700)?**

Port Numbers.

1. **What RFC number is the ARPAWOCKY? What is it? (Search hint: Request for Comments, Google – ARPAWOCKY)**

RFC 527. The first humorous RFC which then led to IETF launching April fool’s day RFC in 1989

1. **Who founded the World Wide Web Consortium (W3C)? (Search hint: W3C)**

The World Wide Web Consortium (W3C) was founded by Tim Berners-Lee in 1994.

1. **Name 10 World Wide Web (WWW) standards that the W3C develops and**

**maintains? (Search hint: W3C)**

Ten WWW standards developed and maintained by the W3C include HTML, CSS, XML, RDF, OWL, SVG, WCAG, HTTP, URI, and URL

1. **Where is the Institute of Electrical and Electronics Engineers (IEEE) headquarters**

**located and what is the significance of its logo? (Search hint: IEEE)**

The Institute of Electrical and Electronics Engineers (IEEE) is headquartered in Piscataway, New Jersey, USA; its logo, featuring a globe and the IEEE name, signifies its global presence and commitment to advancing technology.

1. **What is the IEEE standard for the Wi-Fi Protected Access 2 (WPA2) security**

**protocol? (Search hint: WPA2)**

The IEEE standard for the Wi-Fi Protected Access 2 (WPA2) security protocol is IEEE 802.11i**.**

1. **Is the Wi-Fi Alliance a non-profit standards organization? What is their**

**goal? (Search hint: WiFi Alliance)**

Yes, the Wi-Fi Alliance is a non-profit standards organization aiming to promote and certify Wi-Fi technology and its global adoption.

1. **Who is Hamadoun Touré? (Search hint: ITU)**

Hamadoun Touré is a former Secretary-General of the International Telecommunication Union (ITU), serving from 2007 to 2014.

1. **What is the International Telecommunication Union (ITU) and where is it headquartered? (Search hint: ITU)**

The International Telecommunication Union (ITU) is a specialized agency of the United Nations responsible for issues related to information and communication technologies; it is headquartered in Geneva, Switzerland.

1. **Name the three ITU sectors. (Search hint: ITU)**

The three ITU sectors are the Radiocommunication Sector (ITU-R), the Standardization Sector (ITU-T), and the Development Sector (ITU-D).

1. **What does the RS in RS-232 stand for and which organization introduced**

**it? (Search hint: EIA)**

RS in RS-232 stands for "Recommended Standard"; it was introduced by the Electronic Industries Alliance (EIA) to define standards for serial communication transmission of data.

1. **What is Space Wire? (Search hint: Space wire, IEEE)**

SpaceWire is a high-speed, low-latency data communication network used in spacecraft; it was developed by the European Space Agency (ESA) with contributions from IEEE.

1. **What is the mission of the ISOC and where are its headquarters located? (Search**

**hint: ISOC)**

The Internet Society (ISOC) is a non-profit organization founded in 1992 to promote the open development, evolution, and use of the Internet; its headquarters are located in Reston, Virginia, USA.

1. **What organizations does the IAB oversee? (Search hint: IAB)**

The Internet Architecture Board (IAB) oversees the technical and engineering development of the Internet, including the work of the Internet Engineering Task Force (IETF) and the Internet Research Task Force (IRTF).

1. **What organization oversees the IAB? (Search hint: IAB, ISOC)**

The Internet Society (ISOC) oversees the Internet Architecture Board (IAB), providing organizational and financial support.

1. **When was the ISO founded and where are its headquarters located? (Search hint:**

**ISO)**

The International Organization for Standardization (ISO) was founded on February 23, 1947, and is headquartered in Geneva, Switzerland.