

Unit 2 - Week 0

Course outline
How does an NPTEL online course work?
Week 0
<ul style="list-style-type: none"> Quiz : Assignment_0
Week 01: P2P Networks – Motivation, Basics – Cryptographic Hash, Public Key Cryptography Principles, Security Certificates, Structured and Unstructured P2P Networks, Inconsistent Hashing, Consistent Hashing, Rendezvous Hashing, Locality Preserving Hashing, Distributed Hash Tables
Week 02: Logarithmic Partitioning of Node ID Space and Index Entry Authenticity, Implementation of Voice Over Internet Telephony in P2P Way, Leaf node, Core node and Type of Messages in DHT Networks, Static and Dynamic Partitioning of Node ID Space: Fixed and floating partitioning
Week 03: DHT Routing Protocol : Pastry and Kademlia
Week 04: Tapestry Routing Protocol, Multi-dimensional Distributed Hash Table, and Multi-Layer DHT
Week 05: Keeping <Key, Value> Pairs at Correct Root Nodes, Abrupt and Graceful Exit of Root Node, Resilience of <Key, Value> Pairs, Distributed File System, Storage Space Problem and Incentives to Share Storage
Week 06: P2P Nodes Communications Challenges in Heterogeneous Network Environments, P2P Overlaid Multicast, and A Design of P2P Email System
Week 07: P2P Mailing List Services, P2P Web, P2P Search Engine, On Being Anonymous and P2P in Blockchain
Week 08: P2P Anonymous Communication, The Anonymous Communication on the Internet through TOR Network, An Introduction to TOR Browser, Hidden Services on TOR Network, and Summary of the Course
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Assignment_0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-09-14, 23:59 IST.

This is assignment zero which consist of questions to cover basic concepts which will used in the Peer to Peer Network Course.

- 1) What does protocol defines? 1 point

Protocol defines what data is communicated.
 Protocol defines when data is communicated.
 Protocol defines how data is communicated.
 All of above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of above
- 2) Why Intenet protocol (IP) Protocol is considered as unreliable? 1 point

A packet may be lost
 Packets may arrive out of order
 Duplicate packets may be generated
 All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the above
- 3) What does Router do in a network? 1 point

Forwards a packet to all outgoing links
 Forwards a packet to the next free outgoing link
 Determines on which outing link a packet is to be forwarded
 Forwards a packet to all outgoing links except the originated link

No, the answer is incorrect.
Score: 0
Accepted Answers:
Determines on which outing link a packet is to be forwarded
- 4) A computer network permits sharing of 1 point

Resources
 Information
 Both (a) and (b)
 None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both (a) and (b)
- 5) Connection establishment in Transmission control protocol (TCP) is done by which mechanism? 1 point

Flow control
 Three-Way Handshaking
 Forwarding
 Synchronization

No, the answer is incorrect.
Score: 0
Accepted Answers:
Three-Way Handshaking
- 6) In IPv6, what is size of an IP address? 1 point

64 bits
 128 bits
 256 bits
 8 bytes

No, the answer is incorrect.
Score: 0
Accepted Answers:
128 bits
- 7) The shortest path computation in OSPF is done by 1 point

Dijkstra's ALgorithm
 Bellman-Ford Algorithm
 Distance Vector Algorithm
 None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Dijkstra's ALgorithm
- 8) Which topology needs multipoint connection? 1 point

Star
 Ring
 Mesh
 Bus

No, the answer is incorrect.
Score: 0
Accepted Answers:
Bus
- 9) Which protocol is used to receive mail messages? 1 point

SMTP
 FTP
 TCP
 UDP

No, the answer is incorrect.
Score: 0
Accepted Answers:
SMTP
- 10) Which layer protocol is HTTP? 1 point

Network Layer
 Data Link Layer
 Transport Layer
 Application Layer

No, the answer is incorrect.
Score: 0
Accepted Answers:
Application Layer
- 11) Which of the following functions does UDP perform? 1 point

Process-to-process communication
 Host-to-host communication
 End-to-end reliable data delivery
 Interface-to-interface communication

No, the answer is incorrect.
Score: 0
Accepted Answers:
Process-to-process communication