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# National Testing Agency

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## Introduction to Computer Networks and Internet Protocols

<b>Group Number :</b>	1
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<b>Is this Group for Examiner? :</b>	No

## Introduction to Computer Networks and Internet Protocols-1

<b>Section Id :</b>	512452823
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory

<b>Number of Questions :</b>	100
<b>Number of Questions to be attempted :</b>	100
<b>Section Marks :</b>	100
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	512452879
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 51245214587 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The radio set receives \_\_\_\_\_ signal

1. multiplexed
2. demultiplexed
3. sine wave
4. square waves

**Options :**

- 51245246123. 1
- 51245246124. 2
- 51245246125. 3
- 51245246126. 4

**Question Number : 2 Question Id : 51245214588 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The physical layer has \_\_\_\_\_ interfaces if it contains 3 ports

1. 1
2. 2
3. 3
4. 4

**Options :**

51245246127. 1

51245246128. 2

51245246129. 3

51245246130. 4

**Question Number : 3 Question Id : 51245214589 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The 802.16 physical layer operates using

1. Continuous stream
2. OFDMA
3. Connection Oriented Connection
4. All of the above

**Options :**

51245246131. 1

51245246132. 2

51245246133. 3

51245246134. 4

**Question Number : 4 Question Id : 51245214590 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

802.11a

1. is not available in India
2. uses 5 GHz range
3. use OFDM
4. All of the above

**Options :**

51245246135. 1

51245246136. 2

51245246137. 3

51245246138. 4

**Question Number : 5 Question Id : 51245214591 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ is very important in catching the error

1. Error understanding mechanism
2. Error Communication Mechanism
3. Error resolution mechanism
4. Error Detection Mechanism

**Options :**

- 51245246139. 1
- 51245246140. 2
- 51245246141. 3
- 51245246142. 4

**Question Number : 6 Question Id : 51245214592 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The value of  $x^3 + x^2 + x^0$  is

1. 110
2. 1101
3. 1010
4. 101

**Options :**

- 51245246143. 1
- 51245246144. 2
- 51245246145. 3
- 51245246146. 4

**Question Number : 7 Question Id : 51245214593 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ indicates the maximum x axis value of a signal

1. Frequency
2. Amplitude
3. Phase
4. Period

**Options :**

- 51245246147. 1
- 51245246148. 2
- 51245246149. 3
- 51245246150. 4

**Question Number : 8 Question Id : 51245214594 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Number of oscillations in a second is known as\_\_\_\_\_ of a wave

1. Frequency
2. Amplitude
3. Phase
4. Period

**Options :**

- 51245246151. 1
- 51245246152. 2
- 51245246153. 3
- 51245246154. 4

**Question Number : 9 Question Id : 51245214595 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

It is easier to catch misconfigured devices in SDN due to \_\_\_\_\_

1. Management Plane
2. Programmability
3. Separation of Control and Data Planes
4. Global Vision

**Options :**

- 51245246155. 1
- 51245246156. 2
- 51245246157. 3
- 51245246158. 4

**Question Number : 10 Question Id : 51245214596 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a controller is moved away, it introduces another problem of \_\_\_\_\_

1. Controller to controller communication
2. Controller to network application communication
3. Controller to forwarding device communication
4. All of the above

**Options :**

- 51245246159. 1
- 51245246160. 2
- 51245246161. 3
- 51245246162. 4

**Question Number : 11 Question Id : 51245214597 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When the core strand has consistently decreasing density towards the edge of the cable, it is known as

1. Multimode Fiber
2. Graded Index Fiber
3. Single Step Fiber
4. Single Mode Fiber

**Options :**

- 51245246163. 1
- 51245246164. 2
- 51245246165. 3
- 51245246166. 4

**Question Number : 12 Question Id : 51245214598 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a wireless node, defers transmitting, when it can hear somebody transmitting but does not collide at the receiver, actually even if it transmits, the problem is known as

1. RTS
2. CTS
3. Hidden Station
4. Exposed Station

**Options :**

- 51245246167. 1
- 51245246168. 2
- 51245246169. 3
- 51245246170. 4

**Question Number : 13 Question Id : 51245214599 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

In India, \_\_\_\_\_ manages frequency allocation and licensing process

1. DoT
2. DoE
3. NIC
4. All of the above

**Options :**

- 51245246171. 1
- 51245246172. 2
- 51245246173. 3
- 51245246174. 4

**Question Number : 14 Question Id : 51245214600 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

HF and VHF range of waves can \_\_\_\_\_

1. Bounce off from obstacles
2. Bounce off from ionosphere
3. Travel a very long distance
4. All of the above

**Options :**

- 51245246175. 1
- 51245246176. 2
- 51245246177. 3
- 51245246178. 4

**Question Number : 15 Question Id : 51245214601 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Routing overlays help logically group \_\_\_\_\_

1. Networks
2. Nodes belonging to different networks
3. Nodes belonging to same network
4. All of the above

**Options :**

- 51245246179. 1
- 51245246180. 2
- 51245246181. 3
- 51245246182. 4

**Question Number : 16 Question Id : 51245214602 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Virtual links are established based on \_\_\_\_\_ in case of overlays

1. Destination addresses
2. Different routes
3. Different Services
4. All of the above

**Options :**

- 51245246183. 1
- 51245246184. 2
- 51245246185. 3
- 51245246186. 4

**Question Number : 17 Question Id : 51245214603 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When will the dynamic DNS be helpful?

1. When the server runs DNS in a dynamic fashion
2. When the DHCP is used to allocate addresses
3. When the DNS is to be deployed in a dynamic fashion
4. Whenever one needs to deploy DNS

**Options :**

- 51245246187. 1
- 51245246188. 2
- 51245246189. 3
- 51245246190. 4

**Question Number : 18 Question Id : 51245214604 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Multiplexing at the transport layer is possible due to

1. A multiplexer-demultiplexer
2. Multiple transport layer protocols
3. Multiple application layer protocols
4. The port number

**Options :**

- 51245246191. 1
- 51245246192. 2
- 51245246193. 3
- 51245246194. 4

**Question Number : 19 Question Id : 51245214605 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A digital signal is converted to another digital signal normally for transmission because we need to have a signal with \_\_\_\_

1. An ability to travel long distance
2. No DC component
3. Better error sustainability
4. All of the above

**Options :**

- 51245246195. 1
- 51245246196. 2
- 51245246197. 3
- 51245246198. 4

**Question Number : 20 Question Id : 51245214606 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

It is possible to increase the \_\_\_\_\_ without increasing the \_\_\_\_\_

1. Bit rate, baud rate
2. Bit rate, number of users
3. Signal frequency, signal amplitude
4. All of the above

**Options :**

- 51245246199. 1
- 51245246200. 2
- 51245246201. 3
- 51245246202. 4

**Question Number : 21 Question Id : 51245214607 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Convolution code is also

1. Non-systematic code
2. Non-block code
3. known as voyager code
4. All of the above

**Options :**

- 51245246203. 1
- 51245246204. 2
- 51245246205. 3
- 51245246206. 4

**Question Number : 22 Question Id : 51245214608 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A burst error can be handled by hamming code if \_\_\_\_\_

1. Error is confined to a single column
2. Error is confined to a single bit
3. Error is burst and not confined to a single bit error
4. All of the above

**Options :**

- 51245246207. 1
- 51245246208. 2
- 51245246209. 3
- 51245246210. 4

**Question Number : 23 Question Id : 51245214609 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In the case of TCP, the receiver, upon receiving the DR,

1. Sends DR
2. Sends ACK and later on sends DR
3. Either (Sends ACK and later on sends DR) or (sends only DR)
4. sends DR and then later on ACK

**Options :**

- 51245246211. 1
- 51245246212. 2
- 51245246213. 3
- 51245246214. 4

**Question Number : 24 Question Id : 51245214610 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The TCP \_\_\_\_\_ in the first phase of congestion control

1. Decides strategy
2. Informs the network layer
3. Detect the congestion
4. All of the above

**Options :**

- 51245246215. 1
- 51245246216. 2
- 51245246217. 3
- 51245246218. 4

**Question Number : 25 Question Id : 51245214611 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In the case of UDP, the receiver, upon receiving a segment

1. Sends ACK
2. Keeps the content in sequence
3. Do not respond back
4. Immediately responds back with piggybacked ack

**Options :**

- 51245246219. 1
- 51245246220. 2
- 51245246221. 3
- 51245246222. 4

**Question Number : 26 Question Id : 51245214612 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The PSH flag indicates \_\_\_\_\_ operation

1. Press
2. Pop
3. Push
4. Pip

**Options :**

- 51245246223. 1
- 51245246224. 2
- 51245246225. 3
- 51245246226. 4

**Question Number : 27 Question Id : 51245214613 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In the Link State Algorithm, the age field solves the problem when \_\_\_\_\_

1. Some LS packets are missed
2. An LS packet is corrupted
3. A sequence number of a typical LS packet is corrupted
4. The age of the packet is older than required

**Options :**

- 51245246227. 1
- 51245246228. 2
- 51245246229. 3
- 51245246230. 4

**Question Number : 28 Question Id : 51245214614 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The BGP \_\_\_\_\_

1. Honors business relationships
2. Provide path vector based routing
3. Does not broadcast to all
4. All of the above

**Options :**

- 51245246231. 1
- 51245246232. 2
- 51245246233. 3
- 51245246234. 4

**Question Number : 29 Question Id : 51245214615 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The feedback about transmission is possible using

1. Frame
2. Segment
3. Acknowledgment
4. Piggybacking

**Options :**

- 51245246235. 1
- 51245246236. 2
- 51245246237. 3
- 51245246238. 4

**Question Number : 30 Question Id : 51245214616 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The frames which are sent but not acked are stored at

1. Sender's window
2. Receiver's window
3. Router
4. Receiver's machine

**Options :**

- 51245246239. 1
- 51245246240. 2
- 51245246241. 3
- 51245246242. 4

**Question Number : 31 Question Id : 51245214617 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a switch decides to send an SMTP traffic on a separate route as compared to FTP traffic, it is said to run at layer \_\_\_\_\_

1. 3
2. 4
3. 5
4. 2

**Options :**

- 51245246243. 1
- 51245246244. 2
- 51245246245. 3
- 51245246246. 4

**Question Number : 32 Question Id : 51245214618 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The packet classification process, because it provides ANY LAYER classification, provides \_\_\_\_

1. Error handling
2. Congestion Control
3. Cross layer optimization
4. Flow control

**Options :**

- 51245246247. 1
- 51245246248. 2
- 51245246249. 3
- 51245246250. 4

**Question Number : 33 Question Id : 51245214619 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

for longer distances, one may prefer to use modulation \_\_\_\_\_

1. QPSK
2. QAM 256
3. QAM 64
4. All of the above

**Options :**

- 51245246251. 1
- 51245246252. 2
- 51245246253. 3
- 51245246254. 4

**Question Number : 34 Question Id : 51245214620 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The protocol which uses RTS/CTS mechanism for handling collisions is known as

- \_\_\_\_\_
1. CSMA/CD
  2. CSMA
  3. CSMA/CA
  4. CS/RTS/CTS

**Options :**

- 51245246255. 1
- 51245246256. 2
- 51245246257. 3
- 51245246258. 4

**Question Number : 35 Question Id : 51245214621 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The DCF mode uses \_\_\_\_\_ type of arbitration

1. AP
2. Distributed
3. Anybody can send whenever wishes to
4. CSMA/CD

**Options :**

- 51245246259. 1
- 51245246260. 2
- 51245246261. 3
- 51245246262. 4

**Question Number : 36 Question Id : 51245214622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Ethernet multicast addresses are used for mapping \_\_\_\_\_

1. TCP Segments
2. IP traffic
3. IGMP traffic
4. Physical layer frames

**Options :**

- 51245246263. 1
- 51245246264. 2
- 51245246265. 3
- 51245246266. 4

**Question Number : 37 Question Id : 51245214623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The major difference between HTTP 1.1 and HTTP 2.0 is

1. Performance
2. Structure of messages
3. Persistent connection
4. Headers

**Options :**

- 51245246267. 1
- 51245246268. 2
- 51245246269. 3
- 51245246270. 4

**Question Number : 38 Question Id : 51245214624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

How CNAME is used to provide an indirect reference?

1. By pointing to another machine
2. By pointing to another domain
3. By generating another entry
4. By dynamically pointing to nodes in use

**Options :**

- 51245246271. 1
- 51245246272. 2
- 51245246273. 3
- 51245246274. 4

**Question Number : 39 Question Id : 51245214625 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the difference between a tag and an FEC?

1. Both are same
2. FEC is consistent across path, tag is not
3. Tag is consistent across the path, FEC is not
4. FEC is a better mechanism

**Options :**

51245246275. 1

51245246276. 2

51245246277. 3

51245246278. 4

**Question Number : 40 Question Id : 51245214626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A spanning tree for a given node is generated by an LS algorithm This spanning tree describes the shortest route to all other nodes of the network from \_\_\_\_\_ -

1. All other nodes
2. All neighbors of that node
3. Leaves of the tree
4. The very node which generated that tree

**Options :**

51245246279. 1

51245246280. 2

51245246281. 3

51245246282. 4

**Question Number : 41 Question Id : 51245214627 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

P2P communication is \_\_\_\_\_

1. Between peers
2. More scalable
3. From any node to any other node of the network
4. All of the above

**Options :**

51245246283. 1

51245246284. 2

51245246285. 3

51245246286. 4

**Question Number : 42 Question Id : 51245214628 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

TCP is said to establish \_\_\_\_\_ for reliable service

1. Physical circuit
2. Path
3. Virtual circuit
4. Route

**Options :**

51245246287. 1

51245246288. 2

51245246289. 3

51245246290. 4

**Question Number : 43 Question Id : 51245214629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

m-DNS is used with IoT \_\_\_\_\_

1. As a replacement to DNS
2. As a case when there is a need to broadcast a DNS request
3. For providing mobility
4. For a secure DNS access

**Options :**

- 51245246291. 1
- 51245246292. 2
- 51245246293. 3
- 51245246294. 4

**Question Number : 44 Question Id : 51245214630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Why star topology is not favored in case of 802.15.4?

1. It demands connection over the longer distance
2. One needs a switch or a hub for a star topology
3. Star topology is good only for Ethernet
4. Other than star topologies give better performance in case of IoT devices

**Options :**

- 51245246295. 1
- 51245246296. 2
- 51245246297. 3
- 51245246298. 4

**Question Number : 45 Question Id : 51245214631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The exposed station problem is handled by \_\_\_\_\_

1. CTS
2. RTS
3. RTS + CTS
4. A better protocol

**Options :**

51245246299. 1  
51245246300. 2  
51245246301. 3  
51245246302. 4

**Question Number : 46 Question Id : 51245214632 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Li-Fi uses \_\_\_\_\_ spectrum

1. Visible light
2. UV
3. Radio
4. Microwave

**Options :**

51245246303. 1  
51245246304. 2  
51245246305. 3  
51245246306. 4

**Question Number : 47 Question Id : 51245214633 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When the go back n demands only the last frame does not repeat itself, the selective repeat strategy cannot accept that because \_\_\_\_\_

1. Selective Repeat allows multiple outstanding frames
2. The receiver accepts a range of frames, none should match the previous cycle
3. The sender window size is bigger than one
4. It allows erroneous frames to be retransmitted

**Options :**

- 51245246307. 1
- 51245246308. 2
- 51245246309. 3
- 51245246310. 4

**Question Number : 48 Question Id : 51245214634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a generator polynomial does not divide for  $x^k + 1$ , we need k value to be more than \_\_\_\_\_

1. 64
2. packet length
3. frame length
4. 128

**Options :**

- 51245246311. 1
- 51245246312. 2
- 51245246313. 3
- 51245246314. 4

**Question Number : 49 Question Id : 51245214635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

It is possible to design a generic radio device which can be made to work at specific frequency and use specific modulation on the fly, is known as \_\_\_\_\_

1. Dynamic Radio
2. White space
3. SDR
4. Dynamically configured radio

**Options :**

- 51245246315. 1
- 51245246316. 2
- 51245246317. 3
- 51245246318. 4

**Question Number : 50 Question Id : 51245214636 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

WWW is \_\_\_\_\_

1. Internet
2. Network
3. Service
4. Document

**Options :**

- 51245246319. 1
- 51245246320. 2
- 51245246321. 3
- 51245246322. 4

**Question Number : 51 Question Id : 51245214637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When the TCP wants to break the deadlock by zero window advertisement first and a lost non-zero window advertisement update, it uses \_\_\_\_\_ - timer

1. Connection request timer
2. Persist timer
3. Reverse traffic timer
4. All of the above

**Options :**

- 51245246323. 1
- 51245246324. 2
- 51245246325. 3
- 51245246326. 4

**Question Number : 52 Question Id : 51245214638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a communicating party started the closing by sending a DR and accepting the ack, \_\_\_\_\_ timer helps it not waiting for the DR from the other end forever

1. Keepalive timer
2. Fin-wait-2 timer
3. Time-wait timer
4. All of the above

**Options :**

- 51245246327. 1
- 51245246328. 2
- 51245246329. 3
- 51245246330. 4

**Question Number : 53 Question Id : 51245214639 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a browser only wants to download a page that is updated after it was earlier downloaded, it uses \_\_\_\_\_

1. File download
2. page download
3. Conditional download
4. HTTP Download

**Options :**

- 51245246331. 1
- 51245246332. 2
- 51245246333. 3
- 51245246334. 4

**Question Number : 54 Question Id : 51245214640 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a browser needs to remember some values between sessions, it uses

1. Session Variables
2. Headers
3. Cookies
4. All of the above

**Options :**

- 51245246335. 1
- 51245246336. 2
- 51245246337. 3
- 51245246338. 4

**Question Number : 55 Question Id : 51245214641 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When the port number is sent by FTP, it creates a problem when \_\_\_\_\_ is used

1. DNS
2. NAT
3. TCP
4. UDP

**Options :**

- 51245246339. 1
- 51245246340. 2
- 51245246341. 3
- 51245246342. 4

**Question Number : 56 Question Id : 51245214642 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The TCP makes sure that

1. The data rate increases and decreases as per the network bandwidth available
2. The real time delivery is made for real time data
3. Audio and video transmission is received without jitters
4. All of the above

**Options :**

- 51245246343. 1
- 51245246344. 2
- 51245246345. 3
- 51245246346. 4

**Question Number : 57 Question Id : 51245214643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

TCP manages multiple \_\_\_\_\_ to handle multiple cases of reporting failure of something

1. Buffers
2. Timers
3. Packets
4. All of the above

**Options :**

- 51245246347. 1
- 51245246348. 2
- 51245246349. 3
- 51245246350. 4

**Question Number : 58 Question Id : 51245214644 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

One of the advantages of layering mechanism is that each component's work is \_\_\_\_

1. Clearly defined
2. Independent of each other
3. Hierarchically defined
4. All of the above

**Options :**

- 51245246351. 1
- 51245246352. 2
- 51245246353. 3
- 51245246354. 4

**Question Number : 59 Question Id : 51245214645 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In connection-oriented service \_\_\_\_\_ is established before communication

1. Line
2. Node
3. Connection
4. All of the above

**Options :**

- 51245246355. 1
- 51245246356. 2
- 51245246357. 3
- 51245246358. 4

**Question Number : 60 Question Id : 51245214646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The actual address the mail server runs at in the server machine is denoted by a 16-bit number at the server machine and is known as

1. Network Number
2. Mail ID
3. Port number
4. TCP Number

**Options :**

- 51245246359. 1
- 51245246360. 2
- 51245246361. 3
- 51245246362. 4

**Question Number : 61 Question Id : 51245214647 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In case of a broadcast address, the network card \_\_\_\_\_ the packet

1. Accepts
2. Rejects
3. Accepts and sends back the acknowledgment
4. Rejects but sends back the acknowledgment

**Options :**

- 51245246363. 1
- 51245246364. 2
- 51245246365. 3
- 51245246366. 4

**Question Number : 62 Question Id : 51245214648 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The trie based search is better than the linear search for CIDR because

1. Trie is simple
2. The match does not demand to look at all entries
3. It checks bits after bits
4. Linear search is slow

**Options :**

- 51245246367. 1
- 51245246368. 2
- 51245246369. 3
- 51245246370. 4

**Question Number : 63 Question Id : 51245214649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

For any incoming packet with destination address 2.3.4.5, the subnet mask 255.255.0.0 indicates the administrator has reserved \_ byte for subnet id.

1. 2
2. 3
3. 4
4. 1

**Options :**

- 51245246371. 1
- 51245246372. 2
- 51245246373. 3
- 51245246374. 4

**Question Number : 64 Question Id : 51245214650 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Once the frame transmitted, and the Hybrid controller starts controlling, the HCCA operates in \_\_\_\_\_ mode

1. PCF
2. DCF
3. EDCA
4. All of the above

**Options :**

- 51245246375. 1
- 51245246376. 2
- 51245246377. 3
- 51245246378. 4

**Question Number : 65 Question Id : 51245214651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When multiple frames sent during APSD, \_\_\_\_\_ ack is sent

1. For each of the frame send a separate ack
2. Only one
3. Cumulative
4. All of the above

**Options :**

- 51245246379. 1
- 51245246380. 2
- 51245246381. 3
- 51245246382. 4

**Question Number : 66 Question Id : 51245214652 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The SCTP can provide \_\_\_\_\_ which TCP cannot

1. Sequencing
2. Partial ordering
3. Congestion control
4. Error Reporting

**Options :**

- 51245246383. 1
- 51245246384. 2
- 51245246385. 3
- 51245246386. 4

**Question Number : 67 Question Id : 51245214653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The SCTP can provide \_\_\_\_\_ unlike TCP

1. Congestion control
2. working with multiple streams
3. multiple streams
4. working with multiple users

**Options :**

- 51245246387. 1
- 51245246388. 2
- 51245246389. 3
- 51245246390. 4

**Question Number : 68 Question Id : 51245214654 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

BGP, unlike other routing algorithms, follows a typical routing approach known as \_\_\_\_\_

1. finding best neighbor routing
2. Tabular routing
3. AS Routing
4. path-vector routing

**Options :**

- 51245246391. 1
- 51245246392. 2
- 51245246393. 3
- 51245246394. 4

**Question Number : 69 Question Id : 51245214655 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In wireless networks, a node can send to \_\_\_\_\_

1. Everybody else in the network
2. Only nodes who are directly connected
3. Everybody in the range
4. Only administrator-designated nodes

**Options :**

- 51245246395. 1
- 51245246396. 2
- 51245246397. 3
- 51245246398. 4

**Question Number : 70 Question Id : 51245214656 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a packet moves to a level below in MPLS, \_\_\_\_\_

1. A new tag is added
2. An outer tag is removed
3. Current tag is replaced by a new tag
4. It is processed as per current tag

**Options :**

- 51245246399. 1
- 51245246400. 2
- 51245246401. 3
- 51245246402. 4

**Question Number : 71 Question Id : 51245214657 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ helps the Internet recover from congestion

1. Routers
2. Autonomy of routers
3. Detection process
4. All of the above

**Options :**

- 51245246403. 1
- 51245246404. 2
- 51245246405. 3
- 51245246406. 4

**Question Number : 72 Question Id : 51245214658 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A TLD server is

1. Also a root server
2. Also a local server
3. Represents a top-level
4. Works at transport layer data.

**Options :**

- 51245246407. 1
- 51245246408. 2
- 51245246409. 3
- 51245246410. 4

**Question Number : 73 Question Id : 51245214659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a name server, upon a query, pass the query to the next name server in sequence, it is known as

1. Passing the query
2. Iterative resolution
3. Recursive resolution
4. All of the above

**Options :**

- 51245246411. 1
- 51245246412. 2
- 51245246413. 3
- 51245246414. 4

**Question Number : 74 Question Id : 51245214660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The VLAN stresses on \_\_\_\_\_ membership of nodes

1. Physical
2. Direct
3. Indirect
4. logical

**Options :**

- 51245246415. 1
- 51245246416. 2
- 51245246417. 3
- 51245246418. 4

**Question Number : 75 Question Id : 51245214661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When the node is communicating with a VLAN aware switch, using a normal frame, the switch

1. Discards that frame
2. Ask for VLAN frame
3. Add VLAN information
4. All of the above

**Options :**

- 51245246419. 1
- 51245246420. 2
- 51245246421. 3
- 51245246422. 4

**Question Number : 76 Question Id : 51245214662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

One of the important parts of a TCP message includes

1. Information about an application that generated that message
2. Information about machine which generated that message
3. Information about the user who generated that message
4. All of the above

**Options :**

- 51245246423. 1
- 51245246424. 2
- 51245246425. 3
- 51245246426. 4

**Question Number : 77 Question Id : 51245214663 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The devices connect to the Internet at \_\_\_\_\_ layer

1. Application
2. Transport
3. Network
4. Data Link

**Options :**

- 51245246427. 1
- 51245246428. 2
- 51245246429. 3
- 51245246430. 4

**Question Number : 78 Question Id : 51245214664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

New traffic patterns demand other than conventional routing, why?

1. Stringent response time requirements
2. Real time traffic content is increasing
3. Destination based routing is no longer needed
4. For better error handling

**Options :**

- 51245246431. 1
- 51245246432. 2
- 51245246433. 3
- 51245246434. 4

**Question Number : 79 Question Id : 51245214665 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Why Fast failover is called fast?

1. It fails very fast
2. It takes the action without informing the controller
3. It does it before sending the next packet
4. It avoids slow routes

**Options :**

51245246435. 1

51245246436. 2

51245246437. 3

51245246438. 4

**Question Number : 80 Question Id : 51245214666 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A TV loading the channel you prefer to see daily automatically is an example of

1. Sensor node
2. Smart home device
3. Smart city device
4. All of above

**Options :**

51245246439. 1

51245246440. 2

51245246441. 3

51245246442. 4

**Question Number : 81 Question Id : 51245214667 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A water pipeline sensor that helps in the decision-making process for finding a leakage in the pipeline at Municipal Corporation is an example of

1. Sensor node
2. Smart home device
3. Smart city device
4. All of the above

**Options :**

- 51245246443. 1
- 51245246444. 2
- 51245246445. 3
- 51245246446. 4

**Question Number : 82 Question Id : 51245214668 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The IoT devices become powerful members of the network because they are able to provide \_\_\_\_\_ -

1. Communication
2. Ability to act independently
3. Collaboration
4. All of the above

**Options :**

- 51245246447. 1
- 51245246448. 2
- 51245246449. 3
- 51245246450. 4

**Question Number : 83 Question Id : 51245214669 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The benefits of IoT devices can be fully harnessed if they are \_\_\_\_\_

1. Connected with each other
2. Connected with cloud
3. Connected with server
4. Interactive

**Options :**

- 51245246451. 1
- 51245246452. 2
- 51245246453. 3
- 51245246454. 4

**Question Number : 84 Question Id : 51245214670 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

If a node is connected to two networks, it has \_\_\_\_ addresses

1. Single
2. As many as other nodes of the network has
3. Two
4. Multiple

**Options :**

- 51245246455. 1
- 51245246456. 2
- 51245246457. 3
- 51245246458. 4

**Question Number : 85 Question Id : 51245214671 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

For wireless transmission TXOP is a better option because \_\_\_\_\_

1. Multiple frames can be sent back and back
2. Senders with different speeds get a fair chance
3. Different types of traffic are segregated into different classes
4. Every sender gets its turn one after another.

**Options :**

- 51245246459. 1
- 51245246460. 2
- 51245246461. 3
- 51245246462. 4

**Question Number : 86 Question Id : 51245214672 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The Class E addresses

1. Has 16 bits
2. Has 8 bits
3. Has 24 bits
4. Are kept for future use

**Options :**

- 51245246463. 1
- 51245246464. 2
- 51245246465. 3
- 51245246466. 4

**Question Number : 87 Question Id : 51245214673 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The line containing only dot (.) indicates \_\_\_\_\_ in SMTP

1. Client is done
2. Server is done
3. The mail is over
4. All of the above

**Options :**

- 51245246467. 1
- 51245246468. 2
- 51245246469. 3
- 51245246470. 4

**Question Number : 88 Question Id : 51245214674 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

During wired or wireless communication if the distance increases the bandwidth

1. Remains constant
2. Increase or decrease depending on the media
3. Decreases
4. Increases

**Options :**

- 51245246471. 1
- 51245246472. 2
- 51245246473. 3
- 51245246474. 4

**Question Number : 89 Question Id : 51245214675 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When the frequencies of the band are orthogonal to each other, the frequencies \_\_\_\_ each other

1. help
2. cancel out
3. are independent of each other
4. Dependent on

**Options :**

- 51245246475. 1
- 51245246476. 2
- 51245246477. 3
- 51245246478. 4

**Question Number : 90 Question Id : 51245214676 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A module that processes packets based on the rules provided by the administrator is known as

1. classifier
2. configuration parameter
3. Controller
4. Rule Applier

**Options :**

- 51245246479. 1
- 51245246480. 2
- 51245246481. 3
- 51245246482. 4

**Question Number : 91 Question Id : 51245214677 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The \_\_\_\_\_ field is used by TCP to indicate the data within

1. Protocol
2. Type
3. Port Number
4. All of the above

**Options :**

- 51245246483. 1
- 51245246484. 2
- 51245246485. 3
- 51245246486. 4

**Question Number : 92 Question Id : 51245214678 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

One simple way to avoid congestion possible in a connectionless forwarding mechanism is

1. Dropping a packet
2. Avoiding the congested path
3. Stopping the routers in the congested area
4. All of the above

**Options :**

- 51245246487. 1
- 51245246488. 2
- 51245246489. 3
- 51245246490. 4

**Question Number : 93 Question Id : 51245214679 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When the network address divisions are confined to byte boundaries, the address allocation scheme is known as

1. Classful address
2. Classless address
3. Dotted decimal address
4. Slash notation

**Options :**

- 51245246491. 1
- 51245246492. 2
- 51245246493. 3
- 51245246494. 4

**Question Number : 94 Question Id : 51245214680 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Shin layer in 6LoWPAN is designed to provide

1. Fragmentation
2. Securing the links
3. Converting an IPv6 message into 6LoWPAN message
4. All of the above

**Options :**

- 51245246495. 1
- 51245246496. 2
- 51245246497. 3
- 51245246498. 4

**Question Number : 95 Question Id : 51245214681 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A new routing process needs to be designed for 802.15.4. because the existing routing protocols

1. Do a lot of broadcasting
2. Use a lot of bandwidth
3. Use a lot of power
4. all of the above

**Options :**

- 51245246499. 1
- 51245246500. 2
- 51245246501. 3
- 51245246502. 4

**Question Number : 96 Question Id : 51245214682 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

M2M is \_\_\_\_\_ exchange of information

1. Automatic
2. fast
3. Autonomous
4. all of the above

**Options :**

- 51245246503. 1
- 51245246504. 2
- 51245246505. 3
- 51245246506. 4

**Question Number : 97 Question Id : 51245214683 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The address is not important when communication is carried out using \_\_\_\_\_

1. Wi-Fi
2. Broadcast
3. Point to point
4. Ethernet

**Options :**

- 51245246507. 1
- 51245246508. 2
- 51245246509. 3
- 51245246510. 4

**Question Number : 98 Question Id : 51245214684 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Once the information about all other router's neighboring routers is collected, the LS algorithm \_\_\_\_\_

1. generates a spanning tree
2. generate a list of neighbors
3. generate a weighted graph
4. find the shortest route

**Options :**

- 51245246511. 1
- 51245246512. 2
- 51245246513. 3
- 51245246514. 4

**Question Number : 99 Question Id : 51245214685 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Every input port in the router contains a \_\_\_\_\_

1. packet
2. queue
3. output port
4. Routing table

**Options :**

- 51245246515. 1
- 51245246516. 2
- 51245246517. 3
- 51245246518. 4

**Question Number : 100 Question Id : 51245214686 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Wired or wireless, data communication always happens using

1. wire
2. Frequency
3. EM waves
4. Bits and Bytes

**Options :**

- 51245246519. 1
- 51245246520. 2
- 51245246521. 3
- 51245246522. 4