UNIT IV

TRANSPORT LAYER

Introduction – Transport Layer Protocols – Services – Port Numbers – User Datagram Protocol – Transmission Control Protocol – SCTP 1.

11. Sender and receiver needs to dynamically adjust buffer allocation for
a)flow control
b)congestion control
c)reliability
d)connection establishment
Ans:a,b
12.Transport layer is written/implemented in
a)Hardware
b)Firmware
c)Kernel
d)None
Ans:c
13.If a go-back-N ARQ uses 7 bit sequence number space,then the maximum sender window size will be
a)0 to 64
b)1 to 63
c)0 to128
d)1 to 127
Ans:c
14.The combination of an IP address and a port number is called a
a)transpodt address
b)network address

c)Socket address
d)none of the above
Ans:c
15.If a segment carries data along with an acknowledgment,this is clled
a)backpacking
b)Piggybacking
c)piggypacking
d)none of the above
Ans:b
16.The Stop-And-Wait ARQ,Go-Back-N ARQ and the Selective Repeat ARQ are forchannels.
a)noiseess
b)noisy
c)either a or b
d) neither a nor b
Ans:B
17.In stop-and –Wait ARQ,the acknowledgement number a; ways announces in arithmetic the sequence number of the next frame expected.
a)modulo-m
b)modulo-2
c)modulo-4
d)none of the above
Ans:b
18 control refers to a set of procedures used to restrict the amount of data that the sender can send before waiting for acknowledgment.
a)Flow
b)Error
c)Transmission

d)None of the above
Ans:a
19.The port number is "ephemeral port number",if the source host is
a)NTP
b)Echo
c)Server
d)Client
Ans:d
20. What is the purpose of using source&destination port numbers respectively in the addressing method of transport layer?
a)For Delivery&Reply Operations
b) For Reply& Delivery Operations
c)Only for Delivery operations
d)Ony for Reply operations
Ans: b
Unit-4
1. What is the maximum window size for data transmission Using Selective Repeat protocol with n-bit frame sequence number?
(A) 2 ⁿ (B) 2 ⁿ -1 (C) 2 ⁿ⁻² (D) 2 ⁿ⁻¹
2. The send window is an abstract concept defining an imaginary box of maximum size = 2m - 1 with three variables: Sf, Sn, and Ssize. a)Receive window b)Send and Receive window c)Send window d)All the above Ans:c
3. Assume that, in a Stop-and-Wait system, the bandwidth of the line is 1 Mbps, and 1 bit takes 20 milliseconds to make a round trip. What is the bandwidth-delay product? If the system data packets are 1,000 bits in length, what is the utilization percentage of the link?(page no:712) a)5%

b)10)
c)15%
d)None of the above
Ans:a
5. In the Go-Back-N protocol, the size of the send window must be less than; the
size of the receive window is always
a)2m and 1
b)2m and 0
c)0 and 2m
d)None of the above
Ans:a
6. The is an abstract concept defining an imaginary box of size 1 with a single
variable Rn. The window slides when a correct packet has arrived; sliding occurs one slot at
time.
a) receive window
b)sender window
c)sending window and receiving window
d)All of the above
Ans:a
7. In the protocol, the acknowledgment number always announces, in
modulo-2 arithmetic, the sequence number of the next packet expected.
a)GBN
b)Stop-and Wait protocol
c)Simple Protocol
d)All of the above
Ans:b