

SPPU-TE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

P271

[Total No. of Pages : 2

[6003]-349

T.E. (Computer Engineering) (Semester - I)
COMPUTER NETWORKS AND SECURITY
(310244) (2019 Pattern)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Neat diagrams must be drawn whenever necessary.
- 2) Figures to the right side indicate full marks.
- 3) Assume Suitable data if necessary.
- 4) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.

Q1) a) Differentiate between Circuit Switching and Packet Switching. [6]

b) Give short note on RIP. [6]

c) 192.168.5.71 /26 for given address find out the [6]

i) subnet mask?

ii) what is first ip address for given series?

iii) what is last ip address for given series?

OR

Q2) a) Draw and explain Header format of IPV6. [6]

b) Give short note on BGP [6]

c) List and explain functions of Network Layer. [6]

Q3) a) What is socket? What are different types of socket? Explain socket functions used in connection less services with diagram. [6]

b) Explain TCP congestion control in transport layer? [6]

c) What is Quality of Service? Explain any two methods to improve QoS?[6]

OR

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- Q4)** a) Explain RTP protocol in detail. [6]
b) List and explain transport layer services. [6]
c) 06 32 00 0D 001C E2 17 using this UDP hexadecimal dump find out in decimal numbers [6]
i) Source port no.
ii) Destination port no.
iii) Total length of user datagram.

- Q5)** a) What is HTTP? Explain HTTP request and reply messages. [9]
b) Write short notes on SMTP and MIME. [8]

OR

- Q6)** a) What is DHCP? Explain DHCP working with client state diagram. [9]
b) Write short notes on POP3 and Webmail. [8]

- Q7)** a) Differentiate between Symmetric and Asymmetric Key Cryptography. [6]
b) Explain model for network security. [6]
c) Give short note on Security Policy and mechanisms. [5]

OR

- Q8)** a) Explain Types of Network Attacks. [6]
b) Explain IPSec in detail. [6]
c) Give short note on S/MIME. [5]

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