

# SPPU-TE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

PB-3780

[Total No. of Pages : 2

[6262]-38

T.E. (Computer Engineering)

COMPUTER NETWORK AND SECURITY

(2019 Pattern) (Semester - I) (310244)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

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

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) Draw and explain TCP header format. [6]

b) List and explain transport layer services [6]

c) e2 a7 00 0D 00 20 74 9e 0e ff 00 00 00 01 00 00 00 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.

P.T.O

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OR

- Q4)** a) Draw and explain UDP header format. [6]  
b) What is socket? What are different types of socket? Explain socket functions used in connection oriented services with diagram. [6]  
c) Explain SCTP protocol in detail. [6]

- 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) Draw and explain ITU-T X.800 Security Architecture for OSI. [6]  
b) Give short note on HTTPS. [6]  
c) Give short note on IDS. [5]

OR

- Q8)** a) Differentiate between Symmetric and Asymmetric Key Cryptography. [6]  
b) Explain SSL in detail. [6]  
c) Give short note on Firewalls. [5]

