A TOTAL TOTA	10CS64
USN	50
Sixth Semester B.E. Degree Examination, Dec.2017/Jan.2	118
Computer Network - II	
	36 1 100
	Marks:100
Note: Answer FIVE full questions, selecting at least TWO questions from each part.	
PART - A	
<ul> <li>a. Explain connection less and connection oriented packet switching network.</li> <li>b. Discuss Bellman ford algorithm. Consider the network below and find the shapplying Bellman ford algorithm to find both minimum cost from each node</li> </ul>	(10 Marks) nortest path by to destination (10 Marks)
node 6.	
3	
3.	
(2) S (3) 2	
4 0	
Fig. Q1 (b)	
2 a. State the purpose of traffic management at flow level and discuss about co	ngestion control
	(08 Marks) (08 Marks)
What is fragmentation? What are the causes for fragmentation	(00 Marks)
b. What is fragmentation what are the country addresses:  c. Identify the address class of the following input addresses:	
(i) 14.6.129 (ii) 123.14.121.14	
(iii) 197.125 I.1	(04 Marks)
(iv) 243,18.16.2	2
3 a. Explain the format of IPV6 header.	(07 Marks)
3 a. Explain the format of IPV6 header. b. What is the purpose of ICMP, what kind of network information does it carr	(08 Marks)
6. What is fragmentation.  c. Identify the address class of the following input addresses:  (i) 14.6.12.1  (ii) 123.14.121.14  (iii) 197.125.1.1  (iv) 243.18.16.2  3 a. Explain the format of IPV6 header. b. What is the purpose of ICMP, what kind of network information does it carries.  c. How is checksum in TCP header computed? Explain with an example.	(65 Marks)
4 a. Explain Open Shortest Path First (OSPE) with header format.	(67 Marks)
a. Explain Open Shortest Land	(05 Marks) (08 Marks)
c. Explain Broder Gate Way Protocol (BGP).	(00 11141 103)

PART - B How does FTP work? Explain the connection establishment procedure between a client and (07 Marks) Apply RSA algorithm for the following: Encrypt the plain text Plain text = 9 p = 3, q = 11, e = 3Find the value of d and decrypt the cipher text. (08 Marks) Write a note on firewall. (05 Marks) Discuss the different resource allocation schemes. (06 Marks) What are the QoS methods in integrated service? Explain admission control and RSVP protocol. (07 Marks) Write a note on virtual private network (VPN). C. (07 Marks) a. Explain the session initiation protocol. (10 Marks) b. Design a Huffman encoder for a source generation {a,,a,,a,,a,,a,} with respective probability.  $\{0.50, 0.20, 0.15, 0.10, 0.05\}$ (10 Marks) Explain with neat diagram, Decentralized Energy Efficient Propagation protocol (DEEP). 8 (08 Marks) Explain low energy adaptive clustering hierarchy. (05 Marks) Explain adhoc on demand distance vector routing protocol. (07 Marks)