	Code No.: 330	04
V	ASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD M.C.A. (CBCS) III-Semester Main Examinations, January-2018	
	Computer Networks	
Tim	Note: Answer ALL questions in Part-A and any FIVE from Part-B	
	$Part-A (10 \times 2 = 20 Marks)$	
1.	Write some of the issues of TCP/IP model.	
2.	Identify the five components of a data communications system.	
3.	What are hamming codes? How do you use them to correct burst errors?	
4.	Write short notes on CSMA/CD.	
5.	What are classful addressing and classless addressing?	
6.	Define autonomous system? What are the areas in Autonomous system?	
7.	Define congestion and list the congestion control mechanisms.	
8.	What is weighted fair queuing?	
9.	Define DNS. What are FQDN and PQDN?	
10.	What is an anonymous FTP?	
11	$Part-B (5 \times 10 = 50 Marks)$	E-
11.	a) Define Topology. Explain various categories of Topology.	[
	b) Write short note on RS232 interfacing.	
12.	a) Explain in detail about Selective Repeat with example.	[
	b) Differentiate between pure aloha and slotted aloha.	
13.	a) Explain in detail IPV4 Datagram format.	
	b) Explain Dijkstra Algorithm for formation of shortest path using an example.	[
14.	a) What are Transport layers Primitives? Explain?	[
	b) What is traffic shaping? Explain the Leaky Bucket in detail?	[
15	a) Discuss about DNS.	[
13		
13	b) Define HTPP protocol? Explain the different HTTP messages.	[
	<ul><li>b) Define HTPP protocol? Explain the different HTTP messages.</li><li>a) Explain the responsibilities of Physical layer, Data link layer and Network Layer.</li></ul>	1

a) An organization is granted the block 211.17.180.0/24. The administrator wants to create

b) What are the major differences between Integrated Services and Differentiated Services?

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17. Answer any two of the following:

Find the subnet mask.

ii) Find the number of addresses in each subnet.iii) Find the first and last addresses in subnet 1.iv) Find the first and last addresses in subnet 32.

c) Write short note on Dynamic Documents.

32 subnets.